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WHITE RIVER SHALE OIL CORPORATION

WATER RESOURCES FIELD DATA REPORT 1982

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1982 WATER RESOURCES FIELD DATA REPORT

WHITE RIVER SHALE PROJECT

Prepared for

White River Shale Oil Corporation
Salt Lake City, Utah

Prepared by

VTN Consolidated, Inc.
Irvine, California
Grand Junction, Colorado

April 1983

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PREFACE

The water resources data for tracts Ua and Ub in Utah, presented in the following pages, were collected during the 1982 water year (October 1981 to September 1982). The White River Shale Oil Corporation (WRSOC) and VTN, its water resources contractor, were responsible for surface water data collection at stations on Evacuation Creek (Sta. No. 09306430), Plant Site Wash (Sta. No. 09306602), Southam Canyon Wash (Sta. No. 09306610), and White River below Asphalt Wash (Sta. No. 09306700). Data for other surface water stations (White River below Meeker [Sta. No. 09304800], Evacuation Creek above Missouri Creek [Sta. No. 09306410], and Asphalt Wash at mouth [Sta. No. 09306625]) were received from the U.S. Geological Survey. All ground water data were collected at wells monitored by WRSOC and reduced and analyzed by VTN.

Data on precipitation/evaporation were collected at 12 stations (EVP-2, EVP-13, ARA-2, ARA-13, ARS-9, RA-4, RB-1, RS-10, RS-11, RS-13, RV-7 and RV-8) by WRSOC and reduced and analyzed by VTN. Additional data from the BLM Precipitation Network were utilized as supplemental information.

The Field Data Report is designed to provide a complete record of water resources data for the 1982 water year. These data, and subsequent statistical analyses, were used as a basis for the water resources portion of the 1982 Annual Report issued by WRSOC. WRSOC welcomes any comments or questions on these data should discrepancies be encountered.

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BLM Precipitation Network

White River below Meeker
(Sta. No. 09304800)

- Mean Daily Discharge

DISCHARGE, IN CFS, WATER YEAR 1982 MEAN VALUES, FOR

Preliminary Record
Subject to Revision

9304800
WHITE RIVER BELOW MEEKER, CO

	OCT	NOV	DEC	JAN	FEB	MAR
1	300.00	366.00	345.00	357.00	340.00	350.00
2	306.00	375.00	335.00	352.00	342.00	390.00
3	335.00	378.00	358.00	337.00	332.00	390.00
4	415.00	382.00	329.00	270.00	248.00	389.00
5	483.00	378.00	338.00	324.00	262.00	348.00
6	419.00	372.00	311.00	373.00	308.00	333.00
7	384.00	366.00	323.00	437.00	261.00	322.00
8	397.00	369.00	320.00	228.00	350.00	306.00
9	477.00	352.00	313.00	261.00	310.00	344.00
10	415.00	338.00	327.00	398.00	370.00	341.00
11	407.00	333.00	325.00	414.00	340.00	343.00
12	442.00	334.00	316.00	402.00	330.00	391.00
13	431.00	345.00	317.00	377.00	350.00	353.00
14	425.00	334.00	316.00	355.00	360.00	363.00
15	433.00	329.00	328.00	374.00	360.00	374.00
16	615.00	329.00	329.00	385.00	360.00	373.00
17	472.00	325.00	321.00	396.00	340.00	383.00
18	425.00	351.00	286.00	385.00	330.00	367.00
19	401.00	346.00	319.00	382.00	320.00	356.00
20	391.00	316.00	359.00	367.00	340.00	341.00
21	383.00	354.00	372.00	376.00	340.00	300.00
22	374.00	345.00	345.00	334.00	350.00	292.00
23	363.00	350.00	313.00	292.00	360.00	326.00
24	358.00	355.00	252.00	350.00	350.00	338.00
25	378.00	353.00	283.00	340.00	340.00	324.00
26	360.00	327.00	343.00	340.00	330.00	347.00
27	365.00	317.00	342.00	330.00	340.00	359.00
28	354.00	356.00	327.00	320.00	350.00	358.00
29	364.00	344.00	310.00	350.00	0.00	381.00
30	417.00	343.00	353.00	315.00	0.00	364.00
31	374.00	0.00	366.00	340.00	0.00	311.00
TOTAL	12463.00	10462.00	10121.00	10861.00	9313.00	10857.00

Preliminary Record
Subject to Revision

WHITE RIVER BELOW MEEKER, CO

	APR	MAY	JUN	JUL	AUG	SEP
1	376.00	1010.00	1910.00	1980.00	619.00	445.00
2	367.00	1190.00	1860.00	1900.00	652.00	422.00
3	334.00	1390.00	1770.00	1690.00	758.00	408.00
4	362.00	1720.00	1780.00	1590.00	679.00	411.00
5	357.00	1630.00	1810.00	1520.00	608.00	535.00
6	367.00	1390.00	1950.00	1460.00	554.00	494.00
7	364.00	1270.00	1720.00	1290.00	549.00	430.00
8	323.00	1240.00	1900.00	1190.00	549.00	429.00
9	343.00	1350.00	1780.00	1260.00	594.00	437.00
10	338.00	1430.00	1920.00	1240.00	554.00	436.00
11	358.00	1380.00	1760.00	1120.00	566.00	516.00
12	451.00	1340.00	1670.00	1090.00	633.00	548.00
13	493.00	1420.00	2010.00	1000.00	658.00	624.00
14	520.00	1270.00	2030.00	1000.00	656.00	617.00
15	592.00	1170.00	1970.00	949.00	598.00	606.00
16	594.00	1110.00	1670.00	857.00	519.00	617.00
17	564.00	1140.00	1870.00	839.00	538.00	573.00
18	599.00	1200.00	2020.00	827.00	627.00	523.00
19	621.00	1360.00	1890.00	802.00	567.00	517.00
20	571.00	1420.00	1920.00	761.00	526.00	517.00
21	529.00	1400.00	1740.00	749.00	532.00	507.00
22	534.00	1580.00	1920.00	716.00	512.00	494.00
23	595.00	1790.00	1830.00	692.00	501.00	500.00
24	625.00	1880.00	1700.00	662.00	495.00	492.00
25	722.00	1730.00	1770.00	727.00	494.00	488.00
26	871.00	1920.00	1540.00	690.00	517.00	525.00
27	817.00	2360.00	1660.00	693.00	518.00	573.00
28	793.00	2530.00	1320.00	780.00	501.00	605.00
29	885.00	2390.00	2080.00	863.00	476.00	624.00
30	857.00	2360.00	1920.00	715.00	483.00	644.00
31	0.00	2130.00	0.00	646.00	474.00	0.00
TOTAL	16122.00	48500.00	54690.00	32298.00	17507.00	15557.00

WATER YEAR TOTAL 248751.00 MEAN 681.51

White River near Colorado-Utah
State Line (Sta. No. 09306395)

- Discharge Measurement
  Summary Sheet
- Mean Daily Discharge
- Daily Temperature
- Daily Specific Conductance
- Suspended Sediment Discharge
- Water Quality Data

Sheet 1 of 2

: 9-207
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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)
DISCHARGE MEASUREMENT SUMMARY SHEET

Station No. 09306395

Discharge measurements of WHITE RIVER NR COL-UT STATE LINE, during the year ending Sept. 30, 1982

No.	Date 1980--1981	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating #1 Shift adj.	Rating #1 Percent diff.	Method	Number meas. sections	Gage height change	Time	Measured	TEMP WATER / AIR	TEMP TIME	SPEC COND	PZF	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr						
		D.M. Batty(G)													17.5	0945			Control clear
77	Sept 24	B.A. Sether(M)	115	151	2.02	2.05	305	+.18	+23	.6	30	0	.75	G	25.5	1340	710		
	1981--1982														14.0	1330			Control clear
78	Oct. 7	D.M. Batty	118	223	2.04	2.58	454	+.02	+0.4	.6	26	0	.58	G	19.0	1335	760		Removed record
															4.0	1400			Control clear
79	Nov. 24	"	119	197	2.11	2.38	415	+.13	+0.2	.6	25	0	.50	G	14.5	1405	775		No ice on river
															0.0	1225			Some shore ice
80	Dec. 23	"	116	175	2.09	2.21	366	+.19	-0.5	.6	26	-.02	.42	G	-0.5	1230	775		Probably little effect
		D.M. Batty(M)													0.0	1210			100% ice cover
81	JAN 26	B.A. Sether(M)	122	282	1.66	4.27	469	ice	—	.6	25	-.05	.75	P	5.0	1210	750		backwater
										.6					1.0	1140			Control clear
82	Mar. 04	B.A. Sether	119	250	3.36	3.35	840	+.06	+0.2	2-8	30	-.05	1.17	G-F	10.5	1140	790		Some shore ice
		D.M. Batty													6.5	1000			Control clear
83	Mar. 16	B.A. Sether(M)	118	205	2.23	2.56	457	+.06	-0.7	.6	30	+.02	.67	G	10.5	1330	925		Orifice in silt
																			Removed silt
															11.5	0950			Control clear-
84	Apr. 14	D.M. Batty	121	241	2.40	2.79	578	+.10	0	.6	25	0	.58	G-F	10.0	0850	895		Removed record
							1470								9.5	1030			Control
85	May 7	do	124	397	3.80	4.32	1510	+.10	+2.7	2-8	26	+.02	1.5	G	19.0	1445	415		Appears clear
															14.1	1505			
86	June 1	do	125	568	3.96	5.32	2250	+.10	0	2-8	26	0	1.42		22.0	1555	960		do
		B. Sether(M)													13.0	0850			
87	15	D. Batty	125	529	4.34	5.35	2290	+.10	+0.4	2-8	26	-.03	1.08	G	23.0	1300	350		do
															18.5	1320			
88	29	D. Batty	125	509	4.12	5.18	2100	+.10	-0.9	2-8	26	-.03	1.17	G	34.5	1425	350		do
		D.M. BATTY(G)								.6					19.0	0800			Control clear
89	July 15	G.C. Anderson(M)	125	363	2.87	3.83	1040	-.07	0	2-8	26	0	1.25	G	15.5	0750	485		Removed record
										.6					21.6	1245			CONTROL - UNSTABLE SAND & GRAVEL
90	July 30	G. ANDERSEN	123	314	2.88	3.59	905	-.07	+0.7	2-8	26	-.03	1.0	G	29.0	1240	650		REMOVED BATTLES
		HERBERT (M) REMILLARD (N)								.6					21.0	1000			CONTROL - CLEAR
91	8-03	Batty (G & SED)	135	236	2.62	3.08	618	-.07	-2.4	2-8	23	0	.50		26.0	1140	540		TOOK SED SAMPLES
										.6					22.5	1440			CHANNEL CONTROL - SAND & SILT - COBBLESTONES
92	9-26	D.M. Batty	128	218	2.39	2.84	520	-.07	-1.0	2-8	27	-.02	.58		29.5	1430	600		A-33 record No. Hydro. Remarks
										.6					17.0	1120			Control clear
93	9-22	D.M. Batty	120	240	2.24	2.90	538	0	0	2-8	27	-.03	.58	G	27.0	1230	625		
	1982-83														10.5	1030			
94	Oct 5	do	126	239	2.62	2.92	625	+.08	-0.5	.6	26	0	.58	G	9.5	1140	600		Control clear Removal record

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WHITE RIVER NEAR COLORADO STATE LINE (STA. NO. 09306395)
MEAN DAILY DISCHARGE
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	458	300	350	400	1000	388	882	2280	2170	664	459
2	302	425	170	340	400	1100	436	1010	2170	2200	624	432
3	305	423	210	180	400	1250	444	1290	2110	2140	672	414
4	509	431	190	200	390	1000	446	1460	2050	1930	745	393
5	1610	434	390	220	340	711	417	1760	1920	1790	686	428
6	647	432	400	220	300	588	428	1650	1990	1710	631	598
7	464	428	450	210	250	475	430	1450	2080	1630	577	563
8	410	419	430	210	240	473	430	1350	1990	1460	562	461
9	502	427	410	260	240	449	413	1330	2060	1340	727	443
10	474	410	450	270	360	504	405	1410	2150	1380	606	633
11	736	397	450	200	420	471	414	1500	2160	1340	584	568
12	1340	390	470	160	420	520	419	1450	2010	1210	928	778
13	871	391	460	300	470	555	474	1480	2090	1150	679	735
14	560	399	460	400	410	493	567	1510	2150	1060	763	969
15	584	400	440	410	450	474	560	1360	2170	1060	732	732
16	833	393	400	420	520	469	607	1260	2160	992	641	647
17	712	390	380	440	620	471	639	1200	2030	926	587	636
18	548	394	350	450	640	464	620	1190	2150	868	572	607
19	481	403	360	460	750	464	629	1260	2270	847	656	583
20	452	405	330	460	850	436	632	1410	2210	810	595	594
21	430	383	360	440	740	418	623	1480	2190	764	563	571
22	418	380	360	420	900	397	614	1470	2200	738	553	546
23	410	408	350	400	950	367	619	1660	2210	712	731	522
24	397	411	330	420	960	379	628	1870	2160	716	516	519
25	389	415	210	450	1000	374	650	2120	2110	676	507	517
26	408	415	300	470	950	375	700	2060	2120	716	486	540
27	394	390	390	460	950	395	760	2210	2080	706	495	700
28	390	400	370	440	970	415	820	2440	2020	726	480	1000
29	395	375	360	430	---	416	800	2560	2050	1050	510	1100
30	428	350	350	400	---	424	838	2400	2130	908	488	1000
31	520	---	350	400	---	427	---	2420	---	748	465	---
TOTAL	17212	12176	11230	10890	16290	16754	16850	49902	63470	36473	19030	18688
MEAN	555	406	362	351	582	540	562	1610	2116	1177	614	623
MAX.	1610	458	470	470	1000	1250	838	2560	2280	2200	928	1100
MIN.	293	350	170	160	240	367	388	882	1920	676	465	393
AC-FT	34140	24151	22275	21600	32311	33232	33422	98981	125893	72344	37746	37068

WTR YR 1982 TOTAL: 288965 MEAN: 792 MAX: 2560 MIN: 160 ACRE-FT: 573162

TEMPERATURE (DEG. C)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.0	12.5	15.0	6.0	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
2	16.0	13.5	14.5	6.5	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
3	16.0	13.5	14.5	7.0	3.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	11.5	13.5	7.5	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
5	12.0	10.0	11.0	7.5	4.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
6	14.0	10.0	12.0	8.0	5.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
7	15.0	11.0	13.0	9.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
8	14.0	12.5	13.5	8.5	6.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
9	13.0	11.0	12.0	7.5	5.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
10	13.0	10.5	12.0	6.5	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0
11	12.5	8.0	10.5	6.5	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
12	9.0	7.5	8.0	6.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
13	10.0	8.0	9.0	6.5	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
14	11.5	9.0	10.0	6.5	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
15	10.5	9.0	10.0	7.0	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
16	8.5	8.0	9.5	7.5	4.5	6.0	0.5	0.0	0.0	0.0	0.0	0.0
17	10.5	8.0	9.0	6.5	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
18	11.5	8.0	10.0	5.5	4.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
19	12.0	8.5	10.0	4.5	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
20	12.0	8.5	10.0	3.0	1.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
21	12.0	8.5	10.0	2.5	1.0	2.0	1.0	0.0	0.5	0.0	0.0	0.0
22	11.5	8.0	9.5	3.0	1.0	2.0	1.0	0.0	0.5	0.0	0.0	0.0
23	10.5	7.5	9.0	4.5	2.5	3.5	0.5	0.0	0.0	0.0	0.0	0.0
24	9.0	7.5	8.0	4.5	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
25	9.0	6.0	7.5	4.5	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
26	9.5	6.0	7.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
27	9.5	6.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	9.5	7.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	9.0	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	8.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	6.5	4.5	5.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH:	17.0	4.5	10.0	9.0	0.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0

TEMPERATURE (DEG. C)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09206395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.5	0.0	0.0	7.5	5.5	6.5	16.0	12.5	14.0
2	0.0	0.0	0.0	2.0	0.0	0.5	8.5	4.0	6.0	16.0	13.5	15.0
3	0.0	0.0	0.0	1.5	0.0	0.5	10.0	4.5	7.0	15.0	13.5	14.5
4	0.0	0.0	0.0	2.0	0.0	1.0	10.0	6.5	8.0	15.0	12.5	13.5
5	0.0	0.0	0.0	2.5	0.0	1.0	9.0	4.5	7.0	13.0	10.5	11.5
6	0.0	0.0	0.0	3.0	0.0	1.0	9.5	6.0	8.0	11.5	8.5	10.0
7	0.0	0.0	0.0	5.0	1.0	3.0	8.5	5.5	7.0	12.5	9.5	11.0
8	0.0	0.0	0.0	6.0	3.5	4.5	8.5	4.0	6.5	13.0	11.0	12.0
9	0.0	0.0	0.0	7.5	3.0	5.5	9.5	4.0	7.0	13.5	10.5	12.0
10	0.0	0.0	0.0	7.0	4.5	6.0	11.0	4.5	8.0	13.0	11.0	12.0
11	0.0	0.0	0.0	8.0	5.0	6.5	12.0	7.5	10.0	13.5	10.0	11.5
12	0.0	0.0	0.0	8.0	5.5	7.0	14.0	10.0	12.0	11.0	9.0	10.0
13	0.0	0.0	0.0	8.5	5.0	6.5	15.5	10.0	12.5	10.0	8.0	9.0
14	0.0	0.0	0.0	8.0	5.0	7.0	15.5	10.5	13.0	11.0	7.5	9.0
15	0.0	0.0	0.0	8.5	6.5	7.5	14.0	10.5	12.0	12.5	9.0	11.0
16	0.0	0.0	0.0	9.5	6.0	7.5	12.5	8.5	10.5	14.5	11.5	13.0
17	0.0	0.0	0.0	7.5	6.0	7.0	12.5	7.5	10.0	16.0	11.5	14.0
18	0.0	0.0	0.0	9.5	5.0	7.0	12.5	8.5	10.5	16.0	14.0	15.0
19	0.0	0.0	0.0	7.5	5.0	6.0	10.5	7.5	8.5	15.0	13.0	14.0
20	0.0	0.0	0.0	7.0	4.0	5.5	7.0	5.0	6.0	16.0	12.0	14.0
21	0.0	0.0	0.0	8.0	3.5	5.5	8.5	3.5	6.0	16.5	12.5	14.5
22	0.0	0.0	0.0	8.5	4.0	6.5	11.5	5.0	8.5	17.0	13.5	15.0
23	0.0	0.0	0.0	9.0	4.0	6.5	13.5	8.0	10.5	18.0	14.0	16.0
24	0.0	0.0	0.0	10.0	4.5	7.0	15.0	10.0	12.5	16.5	14.0	15.5
25	0.0	0.0	0.0	10.0	5.0	7.5	15.5	11.0	13.0	16.0	13.0	14.5
26	0.0	0.0	0.0	9.5	7.0	8.5	14.0	12.0	13.0	16.5	12.5	14.5
27	0.0	0.0	0.0	11.0	8.0	9.5	15.5	11.0	13.0	15.5	14.0	15.0
28	0.5	0.0	0.0	11.0	7.5	9.5	15.5	11.0	13.0	15.5	13.0	14.0
29	---	---	---	9.0	5.5	7.5	15.5	12.0	14.5	15.0	12.0	13.5
30	---	---	---	6.5	4.0	5.0	15.0	11.5	13.0	14.0	11.5	12.5
31	---	---	---	7.5	2.5	5.0	---	---	---	14.0	10.5	12.0
MONTH:	0.5	0.0	0.0	11.0	0.0	5.5	15.5	3.5	10.0	18.0	7.5	13.0

TEMPERATURE (DEG. C)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	15.0	12.0	13.5	19.0	16.0	17.5	25.0	21.5	23.5	23.0	18.5	21.0
2	15.5	12.0	13.5	19.5	16.0	17.5	25.0	22.0	23.0	22.5	18.5	20.5
3	16.5	13.0	14.5	19.0	16.0	17.5	24.5	20.5	22.5	22.5	18.0	20.0
4	16.0	13.5	15.0	19.5	16.0	17.5	23.0	20.0	22.0	22.0	18.5	20.0
5	15.5	13.0	14.0	18.0	16.0	17.0	25.0	20.0	22.5	22.0	13.5	20.0
6	15.0	11.5	13.5	18.5	15.0	16.5	25.5	20.5	23.5	20.0	16.5	18.0
7	15.0	12.0	13.5	19.0	15.0	17.0	25.5	21.5	24.0	19.0	17.0	18.0
8	15.5	12.0	13.5	21.0	17.5	19.0	25.0	22.0	23.5	20.0	16.5	18.0
9	15.5	12.5	14.0	21.5	18.0	19.5	23.5	21.0	22.5	22.5	17.5	19.5
10	15.5	12.5	14.0	21.0	17.5	19.5	24.5	20.5	22.5	20.5	15.5	18.0
11	16.5	13.0	15.0	21.0	18.0	19.5	24.5	21.5	22.5	17.5	15.5	16.5
12	16.5	14.5	15.5	22.0	17.5	20.0	22.0	19.0	20.5	15.5	13.5	14.5
13	16.5	14.0	15.0	21.5	19.0	20.5	20.5	19.0	20.0	14.5	12.0	13.5
14	16.5	13.5	15.0	22.5	18.0	20.5	22.0	18.0	20.0	12.0	10.5	11.5
15	15.0	13.5	14.5	22.0	19.0	20.5	22.0	19.5	20.5	14.0	10.5	12.0
16	17.5	13.0	15.5	22.0	18.5	20.5	23.0	20.0	21.5	16.0	13.0	14.5
17	18.5	15.0	16.5	22.5	19.0	21.0	23.5	19.0	21.5	18.0	14.0	16.0
18	17.5	16.0	17.0	23.5	19.0	21.5	25.5	21.0	23.0	19.0	14.5	17.0
19	17.5	14.5	16.0	24.0	19.0	21.5	24.5	21.5	23.0	18.5	16.0	17.0
20	18.5	15.0	16.5	25.0	20.5	23.0	25.5	21.5	23.5	19.0	14.5	17.0
21	18.0	15.5	17.0	25.5	21.5	23.5	26.5	22.0	24.5	20.0	15.5	17.5
22	18.5	16.0	17.0	26.0	22.0	24.0	25.0	22.5	24.0	20.0	16.0	18.0
23	17.0	15.5	16.0	25.5	22.5	24.0	23.5	21.0	22.0	20.5	16.5	18.5
24	18.5	14.0	16.0	25.0	22.0	23.5	24.0	20.5	22.5	20.0	16.0	18.0
25	18.0	16.0	17.0	26.0	21.5	24.0	23.0	21.0	22.0	18.5	16.5	17.5
26	18.0	14.5	16.5	25.5	22.0	24.0	23.0	19.0	21.5	18.5	16.0	17.5
27	19.5	15.5	17.5	25.0	22.5	24.0	23.0	19.0	21.5	17.0	13.5	15.5
28	20.0	17.0	18.5	24.0	22.0	23.0	22.5	19.5	21.0	13.5	10.5	12.0
29	19.5	17.0	18.5	23.0	20.5	21.5	23.5	18.5	21.0	10.5	9.0	9.5
30	18.0	16.0	17.0	23.5	20.5	22.0	24.0	19.5	22.0	11.5	8.5	10.0
31	---	---	---	25.0	20.0	22.5	22.0	18.5	20.5	---	---	---
MONTH:	20.0	11.5	15.5	26.0	15.0	20.5	26.5	18.0	22.0	23.0	8.5	16.5
YEAR:	26.5	0.0	10.0									

SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	721	681	704	702	660	686	632	614	629	653	653	653
2	733	707	720	707	665	691	645	593	623	657	657	657
3	743	721	733	713	671	696	611	583	604	661	661	661
4	754	731	745	720	678	704	607	569	593	665	665	665
5	866	702	770	724	688	711	582	550	573	668	668	668
6	760	726	745	729	695	716	582	558	576	672	672	672
7	784	670	743	729	703	721	576	556	573	676	674	674
8	677	661	671	740	706	728	581	557	576	678	676	677
9	695	663	679	749	705	732	583	571	578	680	678	680
10	700	668	685	753	717	739	590	568	580	682	680	680
11	768	674	694	756	712	740	600	576	593	688	684	687
12	1190	629	785	758	718	744	606	590	601	692	692	692
13	663	601	629	759	721	743	603	593	602	696	696	696
14	640	614	630	757	737	749	609	597	607	699	699	699
15	645	619	635	762	734	752	627	599	614	703	703	703
16	689	619	653	771	725	753	634	622	631	707	707	707
17	650	610	634	773	741	761	634	622	630	711	687	703
18	652	614	636	774	756	765	628	628	628	699	697	699
19	659	611	639	784	756	772	635	635	635	703	699	702
20	657	615	639	787	765	775	661	619	645	703	703	703
21	654	614	638	785	759	776	667	667	667	707	707	707
22	658	616	640	790	756	776	674	674	674	710	710	710
23	663	621	646	790	766	779	708	680	681	714	714	714
24	654	642	649	803	462	736	684	684	684	726	718	721
25	662	622	645	642	596	608	688	626	667	730	730	730
26	667	625	651	617	581	601	630	630	630	750	732	737
27	671	629	652	627	611	619	634	634	634	746	730	743
28	668	640	655	631	615	624	637	637	637	747	733	742
29	670	652	659	636	610	620	641	641	641	737	723	735
30	685	663	673	626	610	621	645	645	645	738	734	736
31	700	666	687	---	---	---	649	649	649	736	736	736
MONTH:	1190	601	676	803	462	715	708	550	623	750	653	700

SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	743	737	739	---	---	---	890	876	883	570	496	528
2	745	745	745	---	---	---	933	727	842	564	490	519
3	746	746	746	---	---	---	754	694	723	511	355	433
4	748	748	748	---	---	---	729	705	716	529	325	425
5	749	749	749	---	---	---	759	729	745	467	411	441
6	---	---	---	---	---	---	780	752	766	439	373	410
7	---	---	---	---	---	---	791	769	783	431	371	408
8	---	---	---	---	---	---	814	790	803	423	375	398
9	---	---	---	---	---	---	839	807	823	428	382	403
10	---	---	---	---	---	---	852	806	830	428	374	395
11	---	---	---	---	---	---	863	835	849	422	362	390
12	---	---	---	---	---	---	887	853	871	409	375	395
13	---	---	---	---	---	---	906	852	877	429	369	404
14	---	---	---	---	---	---	907	675	830	492	428	460
15	---	---	---	---	---	---	791	669	749	532	468	504
16	---	---	---	925	841	883	876	712	775	532	464	500
17	---	---	---	880	738	782	862	722	790	503	455	478
18	---	---	---	774	728	744	752	690	720	509	393	472
19	---	---	---	763	725	740	749	729	738	499	401	451
20	---	---	---	781	755	769	743	717	727	594	462	530
21	---	---	---	824	794	805	723	675	701	488	428	456
22	---	---	---	854	814	835	716	630	678	464	358	435
23	---	---	---	879	841	862	684	606	640	451	391	425
24	---	---	---	933	875	899	674	556	624	439	375	413
25	---	---	---	944	600	866	625	509	539	437	361	392
26	---	---	---	789	731	759	663	503	587	398	356	381
27	---	---	---	758	690	715	649	605	625	404	360	381
28	---	---	---	741	719	729	624	552	588	399	301	360
29	---	---	---	794	772	783	574	542	558	401	287	337
30	---	---	---	832	812	825	570	488	531	395	363	383
31	---	---	---	871	835	852	---	---	---	412	362	386
MONTH:	749	737	745	944	600	803	933	488	730	594	287	429

SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	406	354	378	410	372	391	540	506	524	711	618	645
2	404	314	364	420	340	379	534	520	527	651	611	630
3	412	328	372	423	333	377	664	532	561	652	582	612
4	400	334	375	410	342	383	553	535	543	595	557	575
5	411	371	391	443	389	415	562	546	555	587	545	571
6	421	359	389	472	406	439	561	529	547	596	554	568
7	399	349	372	479	435	463	548	516	531	581	561	571
8	397	365	382	499	455	475	547	521	540	572	548	555
9	399	345	374	542	450	497	624	518	564	588	552	571
10	391	339	365	561	505	539	631	583	605	589	533	572
11	383	319	357	570	484	533	654	622	636	590	558	571
12	376	344	362	587	513	554	877	621	681	621	565	591
13	380	326	357	593	439	481	780	640	692	597	585	590
14	372	326	352	474	444	457	810	593	654	694	602	633
15	366	334	351	512	455	472	651	595	627	641	601	622
16	370	322	347	487	453	469	724	612	653	628	594	614
17	374	344	360	481	451	466	655	565	602	630	594	613
18	384	342	365	483	457	470	586	564	576	635	583	609
19	377	325	352	492	462	478	615	535	567	626	598	610
20	377	313	347	494	464	481	590	524	556	641	585	609
21	371	319	346	496	474	487	695	587	637	651	615	632
22	363	305	340	500	482	492	686	630	656	653	599	632
23	369	321	350	500	482	492	803	583	669	669	621	644
24	369	317	347	502	488	496	688	650	673	657	627	640
25	389	349	375	508	484	495	721	627	674	641	607	622
26	398	346	376	515	483	497	638	586	609	623	597	610
27	394	314	362	559	493	507	655	601	620	933	563	680
28	392	336	364	579	525	547	629	602	617	899	699	731
29	400	304	357	779	537	638	630	602	617	722	722	722
30	389	333	368	759	515	587	657	605	618	730	576	668
31	---	---	---	549	505	529	710	634	670	---	---	---
MONTH:	421	304	363	779	333	483	877	506	606	933	533	617

YEAR: 1190 287 607

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER			DECEMBER	
1	293	140	111	458	540	668	300	282	228
2	302	139	113	425	525	602	170	321	147
3	305	120	99	423	490	560	210	299	170
4	509	3450	4740	431	475	553	190	433	222
5	1610	13500	58700	434	468	548	390	495	521
6	647	6000	10500	432	435	507	400	472	510
7	464	2200	2760	428	418	483	450	478	581
8	410	1320	1460	419	400	453	430	488	567
9	502	3300	4470	427	405	467	410	483	535
10	474	2500	3200	410	402	445	450	474	576
11	736	4550	9040	397	390	418	450	496	603
12	1340	11500	41600	390	380	400	470	494	627
13	871	7600	17900	391	430	454	460	495	615
14	560	6200	9370	399	450	485	460	489	607
15	584	5700	8990	400	412	445	440	491	583
16	833	7500	16900	393	340	361	400	501	541
17	712	5600	10800	390	332	350	380	509	522
18	548	4150	6140	394	345	367	350	491	464
19	481	2800	3640	403	350	381	360	481	468
20	452	1730	2110	405	352	385	330	481	429
21	430	1170	1360	383	335	346	360	484	470
22	418	800	903	380	330	339	360	482	469
23	410	670	742	408	320	353	350	481	455
24	397	650	697	411	295	327	330	464	413
25	389	590	620	415	290	325	210	430	244
26	408	560	617	415	295	331	300	417	338
27	394	550	585	390	299	315	390	420	442
28	390	500	526	400	289	312	370	381	381
29	395	480	512	375	293	297	360	361	351
30	428	515	595	350	298	282	350	340	321
31	520	627	880	---	---	---	250	328	310
TOTAL	17212		220680	12176		12559	11230		13710

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JANUARY			FEBRUARY			MARCH	
1	350	338	319	400	299	323	1000	6600	17800
2	340	338	310	400	291	314	1100	6900	20500
3	180	355	173	400	280	302	1250	6590	22200
4	200	370	200	390	280	295	1000	6750	18200
5	220	391	232	340	277	254	711	5940	11400
6	220	420	249	300	280	227	588	5300	8410
7	210	407	231	250	270	182	475	4450	5710
8	210	410	232	240	323	209	473	3570	4560
9	260	413	290	240	307	199	449	2590	3140
10	270	420	306	360	297	289	504	1950	2650
11	200	395	213	420	308	349	471	1400	1780
12	160	390	168	420	315	357	520	1300	1830
13	300	389	315	470	315	400	555	1310	1960
14	400	378	408	410	320	354	493	712	948
15	410	379	420	450	327	397	474	673	861
16	420	367	416	520	342	480	469	678	859
17	440	328	390	620	445	745	471	725	922
18	450	320	389	640	580	1000	464	615	770
19	460	315	391	750	700	1420	464	556	697
20	460	320	397	850	900	2070	436	519	611
21	440	315	374	740	1050	2100	418	486	548
22	420	290	329	900	1260	3060	397	473	507
23	400	270	292	950	1530	3920	367	508	503
24	420	273	310	960	2060	5340	379	545	558
25	450	275	334	1000	2400	6480	374	450	454
26	470	290	368	950	2850	7310	375	318	322
27	460	313	389	950	3710	9520	395	316	337
28	440	295	350	970	5160	13500	415	330	370
29	430	308	358	---	---	---	416	324	364
30	400	310	335	---	---	---	424	347	397
31	400	310	335	---	---	---	427	316	364
TOTAL	10890		9823	16290		61396	16754		130532

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		APRIL			MAY			JUNE	
1	388	277	290	882	1750	4170	2280	1940	11900
2	436	390	459	1010	2850	7770	2170	1690	9900
3	444	406	487	1290	4260	14800	2110	1700	9680
4	446	330	397	1460	5100	20100	2050	1600	8860
5	417	286	322	1760	5540	26300	1920	1510	7830
6	428	273	315	1650	3980	17700	1990	1890	10200
7	430	240	279	1450	2820	11000	2080	1340	7530
8	430	249	289	1350	2110	7690	1990	1510	8110
9	413	236	263	1330	1950	7000	2060	1470	8180
10	405	275	301	1410	2030	7730	2150	1500	8710
11	414	465	520	1500	2140	8670	2160	1510	8810
12	419	665	752	1450	1960	7670	2010	1570	8520
13	474	900	1150	1480	2100	8390	2090	1570	8860
14	567	990	1520	1510	2070	8440	2150	1580	9170
15	560	924	1400	1360	2050	7530	2170	1480	8670
16	607	1250	2050	1260	2050	6970	2160	1490	8690
17	639	1220	2100	1200	2020	6540	2030	1450	7950
18	620	935	1570	1190	2090	6720	2150	1500	8710
19	629	935	1590	1260	1380	4690	2270	1510	9250
20	632	952	1620	1410	1920	7310	2210	1450	8650
21	623	835	1400	1480	1980	7910	2190	1420	8400
22	614	780	1290	1470	1660	6590	2200	1380	8200
23	619	819	1370	1660	2640	11800	2210	1320	7880
24	628	902	1530	1870	3420	17300	2160	1210	7060
25	650	1680	2950	2120	3920	22400	2110	1200	6840
26	700	2380	4500	2060	2660	14800	2120	1190	6810
27	760	2500	5130	2210	3040	18100	2080	1190	6680
28	820	2130	4720	2440	3040	20000	2020	1190	6490
29	800	1600	3460	2560	3000	20700	2050	1260	6970
30	838	1850	4190	2400	2280	14800	2130	1190	6840
31	---	---	---	2420	1890	12300	---	---	---
TOTAL	16850		48214	49902		363890	63470		250350

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY)

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		JULY			AUGUST			SEPTEMBER	
1	2170	1090	6390	664	468	939	459	792	982
2	2200	1040	6180	624	456	768	432	274	320
3	2140	1050	6070	672	1950	3540	414	207	231
4	1930	925	4820	745	847	1700	393	160	170
5	1790	979	4730	686	638	1180	428	297	343
6	1710	880	4060	631	336	572	598	8160	13200
7	1630	707	3110	577	277	432	563	12700	19300
8	1460	771	3040	562	186	282	461	6900	8590
9	1340	765	2770	727	10200	20000	443	578	691
10	1380	757	2820	606	8520	13900	633	10600	18100
11	1340	600	2170	584	1320	2080	568	13000	19900
12	1210	589	1920	928	14700	36800	778	19200	40300
13	1150	581	1800	679	11600	21300	735	8830	17500
14	1060	458	1310	763	6130	12600	969	15000	39200
15	1060	472	1350	732	2190	4330	732	7830	15500
16	992	490	1310	641	3400	5880	647	2210	3860
17	926	412	1030	587	6200	9830	636	1200	2060
18	868	375	879	572	1250	1930	607	812	1330
19	847	372	851	656	3100	5490	583	988	1560
20	810	334	730	595	1060	1700	594	2580	4140
21	764	297	613	563	492	748	571	2900	4470
22	738	295	588	558	398	600	546	868	1280
23	712	270	519	731	17900	35300	522	598	843
24	716	552	1070	516	11600	16200	519	435	610
25	676	413	754	507	2800	3830	517	288	402
26	716	602	1160	486	870	1140	540	339	494
27	706	780	1490	495	1420	1900	700	14700	27800
28	726	4550	8920	480	410	531	1000	24200	65300
29	1050	25300	71700	510	625	861	1100	19000	56400
30	908	6000	14700	488	1180	1550	1000	11600	31300
31	748	1240	2500	465	2220	2790	---	---	---
TOTAL	38473		161354	19030		210603	18688		396176
YEAR:	288965		1879297						

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395)
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	WATER TEMPER-ATURE (DEG C)	SPECI-FIC CONDUC-TANCE FIELD (UMHOS)	PH FIELD (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SUSP SEDI-MENT DIS-CHARGE (T/DAY)	COLOR (PCU)	TURBI-DITY (NTU)	SUS-PENDED SOLIDS, RESIDUE @ 105 C (MG/L)
10/07/81	1500	454	14.0	760	8.0	8.1	--	--	--	--	--
10/27/81	1630	376	9.6	720	7.9	--	--	--	--	--	--
11/24/81	1600	--	--	--	--	10.6	--	--	--	--	--
12/23/81	1430	366	0.0	775	7.8	12.0	--	--	--	--	--
01/26/82	1400	465	0.0	750	7.5	11.2	--	--	--	--	--
03/25/82	1200	410	6.5	920	7.8	10.0	--	--	--	--	--
05/07/82	1500	1520	9.5	415	7.6	8.7	--	--	--	--	--
06/15/82	1000	2290	13.0	350	7.8	8.2	--	--	50	110	316
07/15/82	1000	1040	19.0	485	8.0	7.6	--	--	--	--	--
08/26/82	1400	520	22.5	600	8.1	7.0	--	--	--	--	--

DATE	TIME	TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	TOTAL DISS SOLIDS (SUM) (MG/L)	ALKALI-NITY, LAB (MG/L AS CACO3)	HARD-NESS TOTAL (AS CACO3) (MG/L)	HARD-NESS, NONCAR. (AS CACO3) (MG/L)	CALCIUM DISS (MG/L)	MAGNE-SIUM DISS (MG/L)	SODIUM DISS (MG/L)	SODIUM ADSORP-TION RATIO (SAR)	PERCENT SODIUM
10/07/81	1500	--	422	150	220	70	55	20	48	1.5	32
10/27/81	1630	--	509	170	290	118	71	27	57	1.6	30
11/24/81	1600	--	543	200	320	115	75	31	62	1.5	30
12/23/81	1430	--	496	190	280	89	69	26	60	1.7	32
01/26/82	1400	--	537	200	310	110	78	28	65	1.7	31
03/25/82	1200	--	619	200	330	130	76	34	77	2.0	34
05/07/82	1500	--	244	126	170	43	43	15	22	0.80	22
06/15/82	1000	218	213	119	160	40	44	12	13	0.50	15
07/15/82	1000	--	294	150	200	52	53	17	22	0.70	19
08/26/82	1400	--	420	177	250	72	62	23	45	1.3	28

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	POTASSIUM DISS (MG/L)	CHLORIDE DISS (MG/L)	SULFATE DISS (MG/L)	SILICA DISS (MG/L)	FLUORIDE DISS (MG/L)	BROMIDE DISS (MG/L)	SULFIDE TOTAL (MG/L AS S)	OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	DISSOLVED ORGANIC CARBON (DOC) (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG/L)
10/07/81	1500	2.9	24	170	12	0.30	--	--	--	--	--
10/27/81	1630	1.8	43	180	13	0.20	--	--	--	--	--
11/24/81	1600	1.7	30	210	13	0.30	--	--	--	--	--
12/23/81	1430	1.5	24	190	11	0.30	--	--	--	--	--
01/26/82	1400	1.7	28	200	15	0.30	--	--	--	--	--
03/25/82	1200	1.8	38	260	12	0.30	--	--	--	--	--
05/07/82	1500	1.6	6.7	66	12	0.20	--	--	--	--	--
06/15/82	1000	1.2	5.5	53	12	0.20	--	<0.50	27.0	4.6	<1
07/15/82	1000	1.4	9.3	87	14	0.20	--	--	--	--	--
08/26/82	1400	1.8	16	150	15	0.30	--	--	--	--	--

DATE	TIME	AMMONIA DISS (AS N) (MG/L)	NITRITE DISS (AS N) (MG/L)	NITRATE DISS (AS N) (MG/L)	NITRITE PLUS NITRATE DISS (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/L)	NITROGEN, ORGANIC DISS (AS N) (MG/L)	NITROGEN DISS (AS N) (MG/L)	PHOSPHORUS, ORTHO DISS (AS P) (MG/L)
10/07/81	1500	--	--	--	<0.09	--	--	--	--	--	--
10/27/81	1630	--	--	--	<0.09	--	--	--	--	--	0.030
11/24/81	1600	--	--	--	<0.10	--	--	--	--	--	--
12/23/81	1430	--	--	--	<0.09	--	--	--	--	--	--
01/26/82	1400	--	--	--	0.18	--	--	--	--	--	0.030
03/25/82	1200	--	--	--	<0.10	--	--	--	--	--	0.020
05/07/82	1500	--	--	--	0.28	--	--	--	--	--	0.010
06/15/82	1000	0.130	<0.020	--	<0.10	0.70	0.20	0.90	0.57	--	0.020
07/15/82	1000	--	--	--	<0.10	--	--	--	--	--	0.140
08/26/82	1400	--	--	--	<0.10	--	--	--	--	--	0.030

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PHOS-PHORUS DISS. (AS P) (MG/L)	PHOS-PHORUS, TOTAL (AS P) (MG/L)	ALUM-INUM DISS (UG/L)	ARSENIC DISS (UG/L)	BARIUM DISS (UG/L)	BERYL-LIUM DIS-OLVED (UG/L)	BORON DISS (UG/L)	CADMIUM DISS (UG/L)	CHRO-MIUM DISS (UG/L)	COBALT DISS (UG/L)
10/07/81	1500	<0.010	--	--	--	--	--	50	--	--	--
10/27/81	1630	--	--	--	--	--	--	50	--	--	--
11/24/81	1600	<0.010	--	--	--	--	--	80	--	--	--
12/23/81	1430	0.010	--	--	--	--	--	50	--	--	--
01/26/82	1400	--	--	--	--	--	--	50	--	--	--
03/25/82	1200	--	--	--	--	--	--	60	--	--	--
05/07/82	1500	--	--	--	--	--	--	40	--	--	--
06/15/82	1000	0.060	0.300	--	1	43	<1	20	<1	--	<3
07/15/82	1000	--	--	--	--	--	--	30	--	--	--
08/26/82	1400	--	--	--	--	--	--	80	--	--	--

DATE	TIME	COPPER DISS (UG/L)	CYANIDE TOTAL (MG/L AS CN)	IRON DISS (UG/L)	LEAD DISS (UG/L)	LITHIUM DISS (UG/L)	MAN-GANESE DISS (UG/L)	MERCURY DISS (UG/L)	MOLYB-DENUM DISS (UG/L)	NICKEL DISS (UG/L)	PHENOLS (UG/L)
10/07/81	1500	--	--	--	--	--	--	--	--	--	--
10/27/81	1630	--	--	<10	--	--	<1	--	--	--	--
11/24/81	1600	--	--	--	--	--	--	--	--	--	--
12/23/81	1430	--	--	--	--	--	--	--	--	--	--
01/26/82	1400	--	--	16	--	--	7	--	--	--	--
03/25/82	1200	--	--	--	--	--	--	--	--	--	--
05/07/82	1500	--	--	--	--	--	--	--	--	--	--
06/15/82	1000	<10	<0.01	<10	<10	12	<1	<0.10	2	--	2
07/15/82	1000	--	--	--	--	--	--	--	--	--	--
08/26/82	1400	--	--	--	--	--	--	--	--	--	--

WHITE RIVER NEAR COLORADO STATE LINE, UTAH (STA. NO. 09306395) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SELE-NIUM DISS (UG/L)	SILVER DISS (UG/L)	STRON-TIUM DISS (UG/L)	VANA-DIUM DISS (UG/L)	ZINC DISS (UG/L)
10/07/81	1500	--	--	--	--	--
10/27/81	1630	--	--	--	--	--
11/24/81	1600	--	--	--	--	--
12/23/81	1430	--	--	--	--	--
01/26/82	1400	--	--	--	--	--
03/25/82	1200	--	--	--	--	--
05/07/82	1500	--	--	--	--	--
06/15/82	1000	1	--	330	1.8	<3
07/15/82	1000	--	--	--	--	--
08/26/82	1400	--	--	--	--	--

Evacuation Creek above Missouri Creek
near Dragon, Utah (Sta. No. 09306410)

- Mean Daily Streamflow

EVACUATION CREEK ABOVE MISSOURI CK NR DRAGON, UT (STA. NO. 09306410)
MEAN DAILY STREAMFLOW (CFS)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	1.5	0.96	1.2	---	0.33	0.40	0.59	1.0	0.53	0.16	0.08
2	28	1.6	0.87	1.9	---	0.33	0.41	0.58	1.0	0.26	0.16	0.06
3	27	1.6	0.67	2.5	---	0.35	0.40	0.62	1.0	0.26	0.36	0.06
4	35	1.5	0.55	2.5	---	0.35	0.40	0.64	1.0	0.25	---	0.05
5	39	1.6	0.37	1.3	---	0.35	0.40	0.62	1.0	0.27	---	0.07
6	18	1.5	0.56	1.6	---	0.64	0.41	0.67	1.0	0.27	---	0.02
7	18	1.5	0.70	3.8	---	0.37	0.42	0.69	1.0	0.26	---	0.00
8	15	1.5	0.70	---	---	0.39	0.64	0.78	1.0	0.27	---	0.00
9	4.3	1.6	0.66	---	---	0.39	0.44	0.80	1.0	0.29	---	0.00
10	2.7	1.5	0.62	---	---	0.41	0.49	0.93	1.0	0.27	---	0.02
11	---	1.4	0.63	---	---	0.42	0.42	1.2	1.0	0.26	---	27
12	16	1.3	0.69	---	---	0.42	0.42	1.3	1.0	0.26	4.3	0.63
13	2.0	1.2	0.69	---	---	0.46	0.41	1.4	0.98	0.26	13	26
14	1.2	1.1	0.74	---	---	0.46	0.40	1.2	1.0	0.25	1.3	0.69
15	38	0.99	0.72	---	---	0.48	0.41	1.0	1.0	0.24	0.73	0.33
16	8.3	1.0	0.78	---	---	0.47	0.40	0.92	0.98	0.24	---	0.41
17	2.3	0.94	0.93	---	---	0.52	0.40	0.86	0.97	0.25	0.18	0.60
18	2.1	0.98	2.4	---	---	0.52	0.43	0.92	0.97	0.25	0.37	0.62
19	2.0	0.96	0.83	---	3.2	0.52	0.44	1.4	0.96	0.25	0.20	---
20	2.0	0.96	0.83	---	1.9	0.60	0.70	1.7	0.93	0.25	0.19	0.45
21	1.8	0.98	0.90	---	0.90	0.64	0.82	1.3	1.1	0.25	---	0.47
22	1.8	0.91	0.91	---	0.93	0.78	0.50	1.0	0.73	0.25	---	0.55
23	1.8	0.90	1.9	---	0.54	0.67	0.51	1.0	0.72	0.25	---	0.63
24	1.7	0.85	1.6	---	0.41	0.66	0.51	1.0	0.75	0.25	0.01	0.77
25	1.7	1.0	0.98	---	0.35	0.51	0.54	1.0	0.77	0.25	0.02	0.89
26	1.6	1.8	2.5	---	0.31	0.42	0.56	1.0	0.77	0.28	0.05	1.0
27	1.7	2.5	2.0	---	0.32	0.42	0.54	1.0	0.75	0.25	0.08	---
28	1.6	1.7	2.5	---	0.32	0.42	0.54	1.0	0.74	7.3	0.09	40
29	1.8	1.4	2.7	---	---	0.42	0.58	1.0	0.74	0.23	0.09	25
30	2.3	1.1	1.3	---	---	0.41	0.58	1.0	0.75	0.17	0.09	2.8
31	1.7	---	1.3	---	---	0.40	---	1.0	---	0.16	0.09	---
TOTAL	307	39	34	15	9.2	15	15	30	28	15	21	129
MEAN	10	1.3	1.1	2.1	0.92	0.47	0.49	0.98	0.93	0.49	1.1	4.6
MAX.	39	2.5	2.7	3.8	3.2	0.78	0.82	1.7	1.1	7.3	13	40
MIN.	1.2	0.85	0.37	1.2	0.31	0.33	0.40	0.58	0.72	0.16	0.01	0.00
AC-FT	610	78	68	29	18	29	29	60	55	30	43	256

WTR YR 1982 TOTAL: 658 MEAN: 2.1 MAX: 40 MIN: 0.00 ACRE-FT: 1305

Evacuation Creek near Mouth near Watson, Utah (Sta. No. 09306430)

- Station Analysis
- Discharge Measurement Summary Sheet
- Mean Daily Discharge
- Daily Temperature
- Daily Specific Conductance
- Water Quality Data

STATION ANALYSIS
1982 WATER YEAR

09306430 - Evacuation Creek near Mouth, near Watson, Utah

Equipment: Digital recorder in a 48-inch CMP shelter, on a 24-inch CMP stilling wall. Staff gauges are attached to the inside and outside of the stilling well. An A-71 analog recorder provided a (back-up) stage record beginning March 15, 1982. Auxillary equipment includes instrumentation to provide continuous record of water temperature and specific conductance.

Gauge Height Record: The Digital recorder operated well all year and generated a complete record. The Analog record was complete for the period of operation.

Datum Corrections: None. Last levels are dated October 10, 1979.

Rating: An artificial control, composed of Gabion baskets, provides stability for intermediate and high stages. Plotting of low flow discharge measurements indicate varying effects of sand or other material on the control during low flow periods.

During the year 29 discharge measurements, Nos. 205-234, were made and used in this analysis. Rating No. 6 was developed with the range from 9.0 cfs to 50 cfs defined by measurement Nos. 205 and 213. Two slope area measurements, Nos. 119 and 150, from previous years, define the range above 1,000 cfs to accomodate the peak stage of 8.5 feet for the 1982 water year.

The intermediate range is poorly defined at this time. Both ratings (Nos. 5 and 6) were used in this analysis.

Discharge: Computation of daily mean discharge is as follows:

Estimated - Oct. 1-3, 6, 7, 9, 10, 13, 14, 17-20;
Aug. 23-25; Sept. 25-18, 20-26, 30

The original computations of discharge were made using the primary records and rating No. 5. Subdivided days were computed manually. All subdivided periods were recomputed to rating No. 6. These days were analyzed either by using the analog chart or by plotting gauge heights from the digital primary on Analog graph paper. Shift adjustments, to both ratings, were applied on a time-based proration for low flow periods and dropped with rising stage.

Estimates of discharge were usually necessary, for periods following high water, when communication was lost (during recessions).

Remarks: Records are fair overall and could be considered good during storm events. However, rating is not well defined in the intermediate range.

H.E. Skjold
3/4/83

1981 Water Year

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09304450

DISCHARGE MEASUREMENTS OF Evacuation Creek near mouth, near Watson, Utah

DURING THE YEAR ENDING SEPT. 30, 19 82

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING #5 SHIFT ADJ. FEET	RATING #5 PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP. AIR °C	TEMP. H_2O °C	REMARKS
							1981	Water Year									
204	4/07/81	J.W. Hale	4.8	1.10	0.79	2.77	0.87	-.37 -.11		.6	20	0.00	0.42	G-F	15.2	15.	HWM at 3.42 ft on inside stage. Control open.
							1982	Water Year									
205	10/05/81	J.W. Hale	28.0	13.8	3.06	3.14	42 ~~[illegible]~~	0 +.01		.6	29	-.08	1.0	G-F	12.2	7.2	HWM at 5.20 ft. Control open.
206	10/20/81	J.W. Hale	5.9	1.07	0.73	2.50	0.78	+.15		.6	21	0.00	0.42	F	16.0	15.6	HWM at 5.32 ft. Control open.
207	11/02/81	J.W. Hale	4.1	0.59	0.73	2.48	0.43			.6	21	+.03	0.50	F	10.5	13.2	Control open.
208	11/20/81	J.W. Hale	5.0	0.76	0.70	2.44	0.53	+.13		.6	25	0.00	0.50	F	5.5	9.8	Communication good. Control open. No ice.
209	12/02/81	J.W. Hale	5.8	0.95	0.52	2.43	0.49	+.19		.6	29	0.00	0.50	F	4.4	9.5	No HWMs. Control open. Small amount of ice on banks.
210	1/5/82	J.W. Hale	5.0	[illegible].72	0.49	2.41	0.35	+.20		.6	25	0.00	0.50	F	—	6.4	No HWMs. Communication poor. Control open. None at well.
211	2/02/82	J.W. Hale	4.6	0.75	0.60	2.43	0.45	+.17		.6	19	0.00	0.58	F	1.5	9.5	No HWMs. Diverted flow to well. Control open.
																	No ice in or around well.
[illegible]	2/16/82	J.W. Hale	29.0	7.35	2.56	2.94	19 ~~[illegible]~~	+.04		.6	28	-.01	0.67	G-F	0	10	HWM on inside stage at 3.34 ft. Control open.
																	No ice in channel.
	[illegible]/19	J.W. Hale				2.72	6.5 EST	—							—	0.0	HWM on dahman in tower at 3.67 ft. Floating ice in channel and ice on banks.
[illegible]	[illegible]	J.W. Hale	12.7	4.81	1.56	[illegible]	9.0 ~~[illegible]~~	+.20		.6	27	0.00	0.58	G-F	6.5	0.0	HWM at 3.29 ft. No ice in channel. [illegible] well and round [illegible] of well, which [illegible] the stage to [illegible].

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VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09306430

DISCHARGE MEASUREMENTS OF Evacuation Creek near mouth, near Watson, Utah

DURING THE YEAR ENDING SEPT. 30, 1982

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 5 SHIFT ADJ. FEET	RATING # 5 PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP. AIR °C	TEMP. H_2O °C	REMARKS
214	2/26/82	J.W. Hale	5.6	0.60	0.60	2.45	0.36	~~+.16~~ -.12		.6	20	0.00	0.58	F	—	11.2	HWM at 3.24 ft. Well was silted on arrival.
																	Cleaned well and diverted flow to well.
215	3/01/82	J.W. Hale	5.6	0.65	0.65	2.42	0.42	+.19		.6	20	0.00	0.42	F	10.5	10	No HWMs. Control open. Communication good.
	3/15/82	J.W. Hale				2.44									—	—	Control open. Communication good.
216	4/01/82	J.W. Hale	4.8	0.69	0.65	2.42	0.45	~~+.20~~ -.08		.6	24	0.00	0.42	F	19.0	12.3	No HWMs. Control open. Communication good.
217	4/12/82	J.W. Hale	4.55	0.60	0.67	2.42	0.40	~~+.19~~ -.06		.6	19	0.00	0.42	F	15.5	16.0	No HWMs. Control open Diverted flow to well.
218	4/21/82	J.W. Hale	4.5	0.54	0.61	2.41	0.33	~~+.19~~ -.08		.6	19	0.00	0.50	F	17.5	18.0	Control open.
	4/29/82	J.W. Hale				2.41									—	14.0	Control open. Collected water quality sample.
219	5/06/82	J.W. Hale	5.0	0.57	0.53	2.44	0.30	+.17 -.05		.6	21	0.00	0.42	F	11.0	12.0	Diverted flow to well.
220	5/12/82	J.W. Hale	5.0	0.51	0.51	2.43	0.26	+.16		.6	21	0.00	0.42	F	11.5	12.0	Control open. gh 2.38 on arr.
221	5/24/82	J.W. Hale	4.75	0.48	0.54	2.43	0.26	+.16		.6	20	0.00	0.42	F	24	25	Control open. Floating moss in channel.
222	6/03/82	J.W. Hale	4.55	0.46	0.54	2.42	0.25	+.16		.6	19	0.00	0.50	F	16.2	19.8	Control open.
223	6/17/82	J.W. Hale	4.85	0.48	0.52	2.40	0.25	+.18		.6	17	0.00	0.33	F	20.5	21.0	Control open.
224	7/06/82	J.W. Hale	4.0	0.28	0.27	2.37	~~0.075~~ .08	+.14		.6	17	0.00	0.33	F	21.0	24	Control open.
225	7/[illegible]	[illegible]	2.0	0.34	0.10	2.36	~~0.037~~ .03	+.12		.6	9	0.00	0.25	F	26.0	22.5	Control open.
226	7/28/82	J.W. Hale	3.55	0.35	0.66	2.41	0.23	+.16		.6	15	0.00	0.33	F	21.	21.	[illegible]
227	8/[illegible]	J.W. Hale	20.2	4.12	1.58	2.62	6.5	~~+.22~~ -.01		.6	27	-0.01	0.50	G-F	22	17.1	Control open. HWM on IS = 5.22 ft.
228	8/10/82	J.W. Hale	12.3	2.20	1.25	2.51	2.7	+.25 -.01		.6	26	0.00	0.50	F	26.0	22.7	Control open.
229	8/11/82	J.W. Hale	8.7	1.91	1.10	2.50	2.0	+.23		.6	19	-0.01	0.50	F	26.0	22.5	

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VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09306430

DISCHARGE MEASUREMENTS OF Evacuation Creek near mouth, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 1982

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 5 SHIFT ADJ. FEET	RATING # 5 PERCENT DIFF.	METHOD	NUMBER MEAS SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP. AIR °C	TEMP. H_2O °C	REMARKS
230	8/16/82	J.W. Hale	2.75	0.26	0.28	2.27	~~0.071~~ .07	+.24		0.6	12	0.00	0.25	F	26	24	HWM on IS = 3.78 ft.
231	8/25/82	J.W. Hale	4.0	0.74	0.91	2.40	0.67	-.07 +.24		0.6	17	-0.02	0.58	F	25.0	18.1	HWM on IS = 6.46 ft control open.
232	9/23/82	J.W. Hale	4.0	0.43	0.58	2.38	0.25	-.07 +.20		0.6	17	0.00	0.33	F	20	19.0	HWM on IS = 3.02 ft. control open.
~~[illegible]~~	9/13/82	J.W. Hale				2.83	[illegible]								18	9.0	HWM on O.S. = 8.50 ft VISIT
233 ~~234~~	9/16/82	J.W. Hale	6.25	1.07	0.88	2.48	0.94	-.07 +.19		0.6	22	-0.01	0.50	F	24.0	22.	HWM on IS = 4.50 ft. float on silt on arrival. cleaned well.
234 ~~235~~	9/24/82	J.W. Hale	5.0	0.91	0.78	2.45	0.71	-.07 +.19		0.6	21	0.00	0.42	F	15.0	13.8	HWM on IS = 3.90 ft. Float on silt on arrival. Cleaned well. Control open.
~~[illegible]~~	9/27/82	J.W. Hale				4.34	EST 396	EST .00		[illegible]					15.0	12.5	VISIT (could not measure)
							1983 Water Year										
235	10/[illegible]/82	J.W. Hale	5.5	1.32	0.76	2.48	1.0	+.19		0.6	20	-0.01	0.42	F	7.0	7.0	Diverted all flow to well. control open HWM on IS = 5.[illegible] ft

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EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)

MEAN DAILY DISCHARGE (CFS)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.20	0.68	0.49	0.39	0.39	0.39	0.45	0.33	0.25	0.09	1.0	0.48
2	0.20	0.44	0.49	0.39	0.39	0.39	0.45	0.33	0.25	0.09	2.0	0.26
3	0.20	0.47	0.49	0.39	0.27	0.58	0.40	0.48	0.25	0.09	41	0.25
4	9.0	0.51	0.49	0.39	0.25	0.49	0.40	0.39	0.25	0.07	13	0.25
5	116	0.56	0.49	0.39	0.22	0.49	0.40	0.30	0.25	0.07	0.78	147
6	2.5	0.60	0.49	0.39	0.20	0.49	0.40	0.27	0.25	0.07	0.55	7.4
7	0.50	0.60	0.39	0.39	0.20	0.49	0.40	0.27	0.25	0.07	0.41	0.41
8	29	0.60	0.39	0.39	0.14	0.49	0.40	0.27	0.25	0.07	0.41	0.33
9	2.5	0.60	0.39	0.39	0.07	0.49	0.40	0.27	0.25	0.04	0.70	0.33
10	1.0	0.60	0.39	0.30	0.12	0.49	0.40	0.27	0.25	0.04	2.2	0.26
11	60	0.60	0.39	0.30	0.20	0.58	0.40	0.27	0.25	0.04	0.86	40
12	55	0.60	0.39	0.30	0.20	0.58	0.40	0.27	0.25	0.04	0.58	9.5
13	7.0	0.60	0.39	0.30	0.20	0.58	0.40	0.27	0.25	0.04	9.6	59
14	2.0	0.60	0.39	0.30	0.20	0.58	0.40	0.27	0.25	0.03	13	23
15	36	0.60	0.39	0.30	0.26	0.58	0.37	0.27	0.25	0.03	0.15	2.0
16	56	0.60	0.39	0.30	34	0.58	0.37	0.27	0.25	0.03	7.0	1.0
17	7.0	0.60	0.39	0.27	44	0.58	0.37	0.27	0.25	0.03	6.5	0.50
18	2.0	0.60	0.39	0.27	22	0.58	0.37	0.27	0.25	0.03	0.25	0.25
19	1.0	0.60	0.39	0.27	19	0.58	0.33	0.27	0.22	0.03	0.20	19
20	0.80	0.53	0.39	0.27	18	0.58	0.33	0.27	0.20	0.03	0.15	7.0
21	0.77	0.53	0.39	0.27	14	0.49	0.33	0.25	0.20	0.03	63	2.5
22	0.77	0.53	0.39	0.27	11	0.49	0.33	0.25	0.20	0.03	96	1.0
23	0.77	0.53	0.39	0.27	7.0	0.49	0.33	0.27	0.20	0.03	50	0.80
24	0.68	0.53	0.39	0.27	2.2	0.49	0.33	0.27	0.17	0.03	15	0.70
25	0.68	0.53	0.39	0.27	0.60	0.49	0.33	0.27	0.14	0.03	1.0	0.70
26	0.68	0.53	0.39	0.27	1.0	0.49	0.33	0.25	0.14	0.03	0.26	0.70
27	0.68	0.53	0.39	0.39	0.26	0.49	0.33	0.25	0.14	0.27	0.33	49
28	0.68	0.53	0.39	0.58	0.33	0.49	0.33	0.25	0.14	10	0.48	81
29	0.58	0.53	0.39	0.49	0.41	0.49	0.33	0.25	0.12	11	0.18	40
30	0.49	0.53	0.39	0.49	---	0.45	0.33	0.25	0.12	2.1	1.6	5.0
31	0.68	---	0.39	0.58	---	0.45	---	0.25	---	1.2	5.5	---
TOTAL	395	17	13	11	177	16	11	8.7	6.5	26	334	500
MEAN	13	0.57	0.41	0.35	6.1	0.52	0.38	0.29	0.22	0.84	11	17
MAX.	116	0.68	0.49	0.58	44	0.58	0.45	0.48	0.25	11	96	147
MIN.	0.20	0.44	0.39	0.27	0.07	0.39	0.33	0.25	0.12	0.03	0.15	0.25
AC-FT	784	34	25	22	351	32	22	17	13	51	662	991

WTR YR 1982 TOTAL: 1514 MEAN: 4.1 MAX: 147 MIN: 0.03 ACRE-FT: 3003

EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)

DAILY TEMPERATURE (DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	8.0	13.0	---	---	---	9.0	1.5	4.0	10.0	1.5	4.5
2	18.0	10.5	13.0	---	---	---	10.5	2.0	4.0	6.0	0.5	2.5
3	18.5	11.5	13.5	15.5	6.5	9.0	12.0	2.5	5.5	8.0	0.0	2.0
4	15.5	10.0	12.0	16.5	6.5	9.5	11.0	3.0	5.5	5.5	0.5	3.0
5	17.0	8.0	11.5	16.0	6.5	9.5	12.0	3.5	6.0	8.0	2.5	3.0
6	---	---	---	16.0	7.0	10.0	12.0	3.0	5.5	8.0	0.0	3.0
7	---	---	---	15.0	8.0	10.5	12.0	3.0	5.5	5.0	0.0	1.0
8	---	---	---	16.0	7.5	9.5	12.0	3.5	6.0	5.0	0.5	1.5
9	---	---	---	15.5	6.5	9.0	11.5	3.0	5.5	7.0	0.5	2.0
10	---	---	---	13.5	6.0	8.5	12.0	4.0	6.5	7.5	0.5	2.5
11	---	---	---	15.0	6.0	8.5	12.5	3.5	6.5	5.5	0.5	2.5
12	---	---	---	15.0	6.0	9.0	11.0	3.0	6.0	8.5	0.5	2.5
13	---	---	---	15.5	7.0	10.0	11.0	4.0	6.0	9.0	1.0	3.5
14	---	---	---	14.0	7.5	9.5	12.0	4.0	6.0	9.0	0.5	3.0
15	---	---	---	14.0	8.0	9.5	12.0	4.5	7.0	10.0	1.0	3.5
16	---	---	---	15.5	6.5	9.5	11.0	3.5	5.5	10.5	1.5	4.5
17	---	---	---	13.0	6.5	8.5	11.0	3.0	5.0	11.5	2.5	5.0
18	---	---	---	12.5	6.0	8.0	10.5	2.0	5.0	8.5	3.0	4.5
19	---	---	---	11.5	5.0	7.0	10.5	4.0	6.5	11.0	1.5	4.0
20	---	---	---	10.5	5.0	7.0	12.5	4.5	7.0	8.0	1.0	3.5
21	---	---	---	11.0	5.0	7.5	9.5	5.0	7.0	5.5	2.0	3.5
22	---	---	---	13.0	5.5	8.0	9.0	3.5	5.0	8.5	0.0	2.0
23	---	---	---	13.5	6.5	9.0	9.0	1.0	3.5	10.0	0.0	3.0
24	---	---	---	12.5	5.5	8.0	6.5	1.5	4.0	9.0	1.5	4.0
25	---	---	---	7.5	3.5	6.0	10.5	2.5	4.0	11.5	1.5	4.5
26	---	---	---	11.0	2.0	5.0	6.5	1.5	4.0	11.5	1.5	5.0
27	---	---	---	7.0	2.5	4.5	10.0	1.0	4.0	11.0	1.5	4.0
28	---	---	---	8.0	3.5	5.5	8.5	0.5	2.5	9.5	1.0	3.5
29	---	---	---	8.5	3.5	5.5	8.5	1.0	3.5	11.0	2.0	4.5
30	---	---	---	9.5	1.5	4.0	9.5	3.0	5.0	8.5	1.5	3.5
31	---	---	---	---	---	---	7.0	2.0	4.0	10.5	1.5	4.0
MONTH:	22.5	8.0	12.5	16.5	1.5	8.0	12.5	0.5	5.0	11.5	0.0	3.5

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UTAH (STA. NO. 09306430)

DAILY TEMPERATURE (DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	10.0	3.0	4.5	10.5	4.5	7.5	14.0	7.0	9.0	24.0	9.5	14.5
2	9.5	1.5	4.0	17.0	4.0	9.5	17.5	4.5	8.5	24.0	9.5	14.5
3	9.5	0.5	4.0	15.0	3.5	8.0	20.0	5.5	10.0	19.5	9.5	13.5
4	6.5	0.5	1.5	13.5	4.0	7.0	17.5	5.0	9.0	24.5	9.0	14.0
5	6.5	0.5	1.5	14.5	4.5	7.5	18.0	3.5	9.0	22.5	7.0	12.0
6	7.5	0.5	2.0	15.5	4.0	7.5	17.5	5.5	9.5	23.0	5.5	12.5
7	8.5	0.5	2.5	16.5	4.5	8.0	16.5	4.5	8.5	22.0	7.5	13.0
8	10.0	1.0	3.5	14.5	6.0	8.5	18.0	3.0	8.0	19.5	9.5	13.0
9	9.5	0.5	3.5	17.5	5.5	9.5	19.0	4.0	8.5	20.5	9.0	12.5
10	11.0	1.0	4.0	15.0	6.5	9.0	20.5	4.0	10.0	22.5	8.0	12.5
11	11.5	2.0	4.5	14.0	6.5	9.5	20.0	7.5	11.5	23.0	8.0	13.0
12	11.5	1.0	4.0	16.0	6.0	9.0	20.5	8.0	12.0	16.5	8.0	11.0
13	11.5	1.0	4.5	17.5	5.5	9.0	23.0	6.5	12.5	17.0	8.0	11.5
14	12.5	3.5	6.0	14.0	6.0	9.0	22.5	6.5	12.0	25.5	7.5	13.5
15	13.5	3.0	5.5	14.0	7.5	9.5	21.5	6.5	11.0	24.5	9.0	14.0
16	3.5	0.5	0.5	14.5	7.5	9.5	20.5	4.5	10.0	24.5	8.5	14.5
17	1.0	0.5	0.5	14.5	6.0	8.5	22.0	4.0	10.5	26.5	8.5	15.5
18	1.0	0.0	0.5	15.0	5.0	9.0	20.5	5.0	10.0	22.5	10.5	14.5
19	1.0	0.0	0.5	15.5	5.0	7.5	17.0	3.5	8.0	21.5	10.0	13.0
20	1.0	0.0	0.5	13.5	4.5	7.5	13.5	3.0	6.0	26.0	7.5	14.5
21	1.5	0.0	0.5	17.0	4.5	8.5	19.5	2.5	8.5	27.0	8.0	15.0
22	4.5	0.0	1.5	17.5	4.5	8.5	22.0	3.5	10.5	28.0	8.5	15.5
23	---	---	---	17.0	4.5	8.5	21.0	6.0	11.0	28.0	10.5	16.5
24	---	---	---	18.5	4.5	9.5	23.5	6.0	12.5	27.0	9.5	15.0
25	---	---	---	19.0	5.0	10.0	24.0	6.5	12.5	27.0	8.5	15.5
26	---	---	---	14.0	8.0	10.0	21.5	8.0	11.5	28.5	9.5	16.5
27	16.0	4.5	8.0	19.5	8.0	11.0	25.0	8.5	13.5	23.0	11.5	15.0
28	17.0	4.0	8.0	17.0	7.0	10.0	24.5	7.0	13.5	24.5	9.5	15.0
29	---	---	---	11.5	5.0	7.5	22.5	8.5	13.0	26.5	8.0	15.5
30	---	---	---	15.5	5.5	8.0	23.0	6.5	13.0	18.5	9.5	13.0
31	---	---	---	17.0	5.0	9.0	---	---	---	27.0	8.0	15.0
MONTH:	17.0	0.0	3.0	19.5	3.5	8.5	25.0	2.5	10.5	28.5	5.5	14.0

EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)
DAILY TEMPERATURE (DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	25.0	9.5	14.5	26.0	13.0	17.5	23.0	18.0	20.0	---	---	---
2	26.0	8.5	15.5	31.0	10.5	18.0	21.5	19.0	20.0	---	---	---
3	27.0	10.0	16.0	31.5	10.5	18.5	23.5	17.0	20.0	---	---	---
4	24.0	9.5	15.0	28.0	11.0	17.5	29.5	13.0	20.5	28.5	12.5	17.5
5	23.5	9.5	14.0	22.5	11.5	16.0	25.0	17.0	20.0	28.5	8.5	16.0
6	26.0	7.0	14.5	30.5	9.5	18.0	25.0	16.0	19.5	---	---	---
7	25.0	7.5	14.5	32.0	11.0	18.5	21.5	16.5	18.5	---	---	---
8	25.5	8.5	14.5	33.0	14.5	20.0	23.0	17.0	19.5	---	---	---
9	27.0	8.5	15.0	32.0	14.0	20.5	25.5	16.5	19.5	---	---	---
10	27.5	8.5	16.0	33.0	12.0	20.0	30.0	15.0	21.0	---	---	---
11	28.5	10.0	17.0	33.5	13.5	20.0	---	---	---	---	---	---
12	24.0	11.0	16.5	34.5	13.0	21.0	---	---	---	19.5	9.0	13.5
13	25.0	11.0	16.0	29.5	15.0	19.5	---	---	---	11.5	9.5	10.5
14	28.0	10.5	16.0	33.0	13.5	20.5	---	---	---	---	---	---
15	26.0	11.5	16.5	32.5	13.5	20.0	---	---	---	---	---	---
16	30.0	10.5	18.0	30.5	12.0	19.5	---	---	---	---	---	---
17	30.0	12.0	18.5	31.0	15.0	20.5	28.5	15.0	20.5	23.0	11.5	15.0
18	24.5	12.0	16.0	34.0	13.0	20.5	29.5	17.5	21.5	23.0	10.0	14.5
19	29.0	10.0	17.5	34.0	12.5	20.5	25.0	17.5	20.0	22.0	11.5	14.5
20	30.0	10.5	18.0	34.5	14.5	21.5	27.0	17.0	20.5	19.0	11.0	14.5
21	28.0	11.5	17.5	34.5	14.5	21.5	26.5	15.5	20.5	19.5	12.5	15.5
22	30.5	13.0	19.0	33.5	15.5	21.5	29.5	13.0	19.5	19.0	12.5	15.0
23	27.5	12.0	17.5	31.5	17.0	22.0	24.0	14.5	19.0	19.0	12.5	15.0
24	31.0	12.0	19.0	33.5	17.0	22.5	---	---	---	21.0	11.5	14.5
25	29.5	12.5	17.5	34.0	16.0	22.0	---	---	---	18.0	12.0	14.0
26	31.5	10.5	19.0	34.0	16.5	22.0	28.5	13.5	18.5	23.0	13.0	15.0
27	32.0	12.0	20.0	31.5	18.5	23.0	29.0	13.0	18.5	14.0	10.0	12.5
28	29.5	12.5	19.0	27.5	18.5	21.0	25.0	13.0	17.5	13.0	7.5	9.5
29	29.0	11.5	18.0	28.5	17.5	22.0	29.0	14.0	19.5	10.5	6.5	8.5
30	28.0	13.0	17.5	23.0	18.5	20.5	29.0	13.5	19.0	15.0	8.0	11.0
31	---	---	---	23.5	18.0	20.5	---	---	---	---	---	---
MONTH:	32.0	7.0	17.0	34.5	9.5	20.0	30.0	13.0	19.5	28.5	6.5	13.5
YEAR:	34.5	0.0	11.0									

EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	4160	3760	4030	4440	4170	4380
2	---	---	---	---	---	---	4230	3880	4110	4480	4350	4430
3	---	---	---	---	---	---	4310	3850	4150	4550	4360	4450
4	---	---	---	---	---	---	4300	3940	4170	4510	4380	4440
5	---	---	---	---	---	---	4280	3920	4160	4430	4350	4370
6	---	---	---	---	---	---	4290	3930	4170	4550	4320	4430
7	---	---	---	---	---	---	4290	3920	4170	4600	4260	4480
8	---	---	---	---	---	---	4280	3930	4170	4510	4270	4430
9	---	---	---	---	---	---	4290	3910	4170	4470	4320	4410
10	---	---	---	---	---	---	4260	3950	4170	4460	4320	4410
11	---	---	---	---	---	---	4270	3950	4170	4450	4370	4420
12	---	---	---	---	---	---	4290	3990	4180	4470	4340	4430
13	---	---	---	---	---	---	4270	4080	4210	4460	4330	4410
14	---	---	---	---	---	---	4270	4020	4200	4480	4340	4430
15	---	---	---	---	---	---	4340	4190	4260	4490	4350	4440
16	---	---	---	---	---	---	4390	4220	4330	4480	4360	4440
17	---	---	---	---	---	---	4410	4240	4360	4480	4360	4440
18	---	---	---	---	---	---	4420	4240	4350	4490	4430	4470
19	---	---	---	---	---	---	4370	4260	4330	4540	4430	4500
20	---	---	---	---	---	---	4360	4190	4300	4560	4480	4520
21	---	---	---	4250	3820	4100	4330	4230	4300	4540	4280	4500
22	---	---	---	4190	3460	3890	4350	4320	4340	---	---	---
23	---	---	---	3980	3030	3570	4410	4300	4370	---	---	---
24	---	---	---	3670	3070	3390	4410	4330	4370	---	---	---
25	---	---	---	3770	3270	3560	4400	4290	4360	---	---	---
26	---	---	---	4040	3470	3780	4410	4300	4370	4920	4650	4780
27	---	---	---	4050	3610	3860	4420	4140	4320	5260	4900	5040
28	---	---	---	4050	3650	3880	4450	4320	4400	5150	4930	5070
29	---	---	---	4010	3650	3870	4440	4340	4390	5090	4740	4870
30	---	---	---	4110	3680	3970	4400	4330	4380	5230	4860	4980
31	---	---	---	---	---	---	4430	4330	4400	5300	4790	5050
MONTH:	---	---	---	4250	3030	3787	4450	3760	4263	5300	4170	4556

EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	4920	4740	4830	4510	4360	4440	4530	4390	4500	4390	4260	4360
2	4970	4650	4810	4440	4020	4380	4600	4390	4550	4400	4270	4350
3	4700	4550	4640	4450	968	3800	4630	4460	4560	7020	918	3690
4	4700	4550	4620	4550	1830	4290	4660	4510	4590	3420	1710	2440
5	4670	4330	4510	4610	4520	4570	4700	4530	4620	4510	2760	3870
6	4520	4200	4400	4660	4470	4620	4660	4480	4580	4510	4320	4440
7	4490	4220	4410	4670	4570	4640	4640	4520	4600	4480	4350	4420
8	4500	4260	4420	4700	4610	4660	4670	4550	4620	4450	4360	4410
9	4490	4280	4440	4720	4610	4680	4700	4480	4600	4470	4360	4420
10	4590	4270	4500	4730	4630	4690	4650	4480	4580	5020	4350	4440
11	4600	4280	4470	4740	4650	4690	4620	4480	4560	4470	4280	4390
12	4500	4290	4430	4740	4390	4610	4670	4510	4580	4600	4420	4480
13	4500	4280	4420	4610	4200	4470	4670	4460	4570	4600	4390	4510
14	4530	4290	4430	4540	4280	4470	4630	4450	4540	4550	4000	4330
15	4720	4120	4490	4530	4370	4490	4590	4480	4540	4430	4110	4280
16	5290	640	1300	4510	4330	4420	4590	4470	4550	5040	4030	4320
17	1650	540	761	4460	4220	4340	4600	4420	4530	4600	4170	4420
18	1800	640	956	4350	4170	4290	4560	4490	4520	4520	4250	4410
19	---	---	---	4380	4200	4340	4590	4510	4560	4600	4300	4420
20	---	---	---	4400	4270	4340	4610	4560	4580	4570	4280	4470
21	---	---	---	4380	4210	4310	4630	4350	4540	4490	3990	4340
22	---	---	---	4380	4240	4340	4610	4400	4530	4420	4100	4280
23	---	---	---	4410	4250	4350	4560	4380	4490	4340	4010	4230
24	---	---	---	4410	4270	4360	4520	4320	4460	4300	4100	4210
25	---	---	---	4430	4270	4370	4500	4350	4440	4680	4260	4430
26	---	---	---	4400	4200	4360	4450	4370	4430	4800	4320	4650
27	4420	4330	4370	4410	4290	4380	4470	4310	4400	4750	4180	4500
28	4490	4380	4440	4440	4340	4410	4430	4250	4380	4810	4210	4520
29	---	---	---	4490	4200	4430	4430	4320	4380	4840	4590	4750
30	---	---	---	4520	4430	4480	4420	4220	4360	5700	4640	4800
31	---	---	---	4530	4390	4490	---	---	---	4840	4630	4770
MONTH:	5290	540	3982	4740	968	4436	4700	4220	4525	7020	918	4334

EVACUATION CREEK NEAR MOUTH, NEAR WATSON, UTAH (STA. NO. 09306430)
DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	4850	4720	4790	4870	4690	4750	---	---	---	---	---	---
2	4850	4700	4780	4880	4640	4740	---	---	---	---	---	---
3	4850	4170	4680	4910	4610	4750	---	---	---	---	---	---
4	4840	4510	4760	4950	4650	4770	---	---	---	4410	4330	4370
5	4900	4690	4780	8340	4700	4940	---	---	---	4390	600	3330
6	4870	4660	4770	5070	4730	4880	---	---	---	---	---	---
7	4820	4580	4730	5030	4800	4890	---	---	---	---	---	---
8	4870	4700	4790	6040	4780	4970	---	---	---	---	---	---
9	4910	4760	4850	5060	4860	4920	---	---	---	---	---	---
10	4860	4740	4820	5020	4830	4900	---	---	---	---	---	---
11	4840	4710	4790	5030	4820	4890	---	---	---	---	---	---
12	4800	4660	4750	5020	4760	4880	---	---	---	---	---	---
13	4800	4690	4760	4940	4760	4840	---	---	---	---	---	---
14	4800	4710	4750	5000	4770	4860	---	---	---	---	---	---
15	4770	4600	4710	5040	4720	4880	---	---	---	---	---	---
16	4750	4540	4670	5080	4790	4890	---	---	---	---	---	---
17	4900	4580	4700	5100	4840	4910	---	---	---	---	---	---
18	4790	4550	4690	5040	4810	4890	---	---	---	4130	4020	4080
19	4820	4500	4690	5060	4840	4910	---	---	---	4100	1160	3250
20	4740	4410	4620	5100	4820	4900	---	---	---	1460	990	1110
21	4720	4540	4620	5080	4800	4890	---	---	---	3020	1490	2320
22	4780	4640	4690	5020	4790	4870	---	---	---	3100	2710	2980
23	4770	4650	4710	5080	4770	4880	---	---	---	3180	2770	3030
24	4840	4650	4720	5040	4830	4920	---	---	---	4080	3180	3390
25	9750	4510	4990	5070	4830	4910	---	---	---	3660	3500	3580
26	4870	4640	4750	10000	2360	5000	---	---	---	3600	3390	3550
27	4810	4580	4700	4210	1120	3060	---	---	---	3590	670	1400
28	4890	4620	4740	6270	---	---	4200	1320	3790	1190	520	717
29	4890	4670	4750	---	---	---	2820	1370	2370	1200	590	850
30	4860	4660	4730	---	---	---	2870	760	2520	1180	1030	1120
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	9750	4170	4743	10000	1120	4811	4200	760	2893	4410	520	2605

YEAR: 10000 520 4315

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UTAH (STA. NO. 09306430)
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	WATER TEMPER-ATURE (DEG C)	SPECI-FIC CONDUC-TANCE FIELD (UMHOS)	PH FIELD (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SUSP SEDI-MENT DIS-CHARGE (T/DAY)	COLOR (PCU)	TURBI-DITY (NTU)	SUS-PENDED SOLIDS, RESIDUE @ 105 C (MG/L)	
10/04/81	2200	E70	--	--	--	--	E270000	51030	--	--	--	
10/04/81	2400	E138	--	--	--	--	65800	24517	--	--	--	
10/05/81	1120	E48	10.0	590	8.3	9.2	35400	4588	--	--	--	
10/20/81	1205	0.78	15.5	4100	7.5	8.0	57	0.12	--	--	--	
11/02/81	1115	0.43	13.0	4000	8.0	--	40	0.05	--	--	--	
12/02/81	1130	0.53	9.5	4000	8.0	--	70	0.10	--	--	--	
01/05/82	1110	0.35	6.0	--	7.5	9.6	43	0.04	--	--	--	
01/28/82	1100	E0.20	5.5	4700	--	--	--	--	--	--	--	
02/01/82	1205	0.45	9.5	4800	8.0	10.4	41	0.05	--	--	--	
02/16/82	1145	19	0.0	1600	7.0	9.6	1720	88	--	--	--	
02/19/82	1000	E11	0.0	1500	8.0	10.0	1560	46	--	--	--	
02/22/82	1000	9.0	0.0	1500	8.0	--	10500	255	--	--	--	
03/01/82	1100	0.42	10.5	4400	8.0	--	51	0.06	--	--	--	
04/01/82	1130	0.45	13.0	4500	--	11.2	174	0.21	--	--	--	
04/21/82	1220	0.33	18.0	4600	8.2	10.2	229	0.20	--	--	--	
04/29/82	1000	E0.31	14.0	4600	8.2	8.8	--	--	5	1.8	7	
05/12/82	1120	0.26	12.0	4800	6.8	10.0	90	0.06	--	--	--	
05/24/82	1350	0.26	24.0	4100	6.8	--	121	0.09	--	--	--	
06/03/82	1055	0.25	19.5	4800	6.8	9.8	231	0.16	--	--	--	
06/17/82	0950	0.25	21.0	4700	7.0	7.8	109	0.07	--	--	--	
07/06/82	1220	0.08	26.0	4800	7.0	7.2	160	0.04	--	--	--	
07/16/82	1100	0.03	22.5	4900	6.7	--	40	0.00	--	--	--	
07/28/82	1145	0.23	22.5	3250	6.0	5.8	71200	44	--	--	61800	
08/03/82	2000	E568	--	--	--	--	E273000	418673	--	--	--	
08/04/82	1000	6.5	17.0	1150	7.2	6.4	63900	1121	--	--	--	
08/10/82	1130	2.7	22.5	1400	7.3	7.0	65700	486	--	--	--	
08/11/82	1030	E0.33	23.0	4000	7.0	6.9	--	--	--	--	--	
08/11/82	1115	2.0	--	--	--	--	25000	135	--	--	--	
08/16/82	1130	0.07	24.5	4400	8.8	6.6	132	0.03	--	--	--	
08/25/82	0900	0.63	18.5	4000	8.6	--	763	1.3	--	--	--	
09/03/82	1030	0.25	16.0	3100	8.0	6.8	--	--	--	--	--	
09/16/82	1230	0.94	20.0	3950	7.6	6.6	--	--	--	--	--	--
09/24/82	0920	0.71	12.0	3600	8.1	7.6	--	--	--	--	--	-
09/27/82	1100	E280	12.5	820	7.8	--	--	--	--	--	--	-

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	TOTAL DISS SOLIDS (SUM) (MG/L)	ALKALI-NITY, LAB (MG/L AS CACO3)	HARD-NESS TOTAL (AS CACO3) (MG/L)	HARD-NESS, NONCAR. (AS CACO3) (MG/L)	CALCIUM DISS (MG/L)	MAGNE-SIUM DISS (MG/L)	SODIUM DISS (MG/L)	SODIUM ADSORP-TION RATIO (SAR)	PERCENT SODIUM
10/04/81	2200	--	--	--	--	--	--	--	--	--	--
10/04/81	2400	--	--	--	--	--	--	--	--	--	--
10/05/81	1120	--	--	--	--	--	--	--	--	--	--
10/20/81	1205	--	--	--	--	--	--	--	--	--	--
11/02/81	1115	--	--	--	--	--	--	--	--	--	--
12/02/81	1130	--	--	--	--	--	--	--	--	--	--
01/05/82	1110	--	--	--	--	--	--	--	--	--	--
01/28/82	1100	--	4010	450	1200	757	170	190	800	10	59
02/01/82	1205	--	--	--	--	--	--	--	--	--	--
02/16/82	1145	--	--	--	--	--	--	--	--	--	--
02/19/82	1000	--	--	--	--	--	--	--	--	--	--
02/22/82	1000	--	--	--	--	--	--	--	--	--	--
03/01/82	1100	--	--	--	--	--	--	--	--	--	--
04/01/82	1130	--	--	--	--	--	--	--	--	--	--
04/21/82	1220	--	--	--	--	--	--	--	--	--	--
04/29/82	1000	4710	3790	390	1200	825	190	180	810	10	59
05/12/82	1120	--	--	--	--	--	--	--	--	--	--
05/24/82	1350	--	--	--	--	--	--	--	--	--	--
06/03/82	1055	--	--	--	--	--	--	--	--	--	--
06/17/82	0950	--	--	--	--	--	--	--	--	--	--
07/06/82	1220	--	--	--	--	--	--	--	--	--	--
07/16/82	1100	--	--	--	--	--	--	--	--	--	--
07/28/82	1145	2840	2930	593	860	268	180	100	540	8.0	57
08/03/82	2000	--	--	--	--	--	--	--	--	--	--
08/04/82	1000	--	--	--	--	--	--	--	--	--	--
08/10/82	1130	--	--	--	--	--	--	--	--	--	--
08/11/82	1030	--	--	--	--	--	--	--	--	--	--
08/11/82	1115	--	--	--	--	--	--	--	--	--	--
08/16/82	1130	--	--	--	--	--	--	--	--	--	--
08/25/82	0900	--	--	--	--	--	--	--	--	--	--

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	POTAS-SIUM DISS (MG/L)	CHLOR-IDE DISS (MG/L)	SUL-FATE DISS (MG/L)	SILICA DISS (MG/L)	FLUOR-IDE DISS (MG/L)	BROMIDE DISS (MG/L)	SULFIDE TOTAL (MG/L AS S)	OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	DIS-SOLVED ORGANIC CARBON (DOC) (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG/L)
10/04/81	2200	--	--	--	--	--	--	--	--	--	--
10/04/81	2400	--	--	--	--	--	--	--	--	--	--
10/05/81	1120	--	--	--	--	--	--	--	--	--	--
10/20/81	1205	--	--	--	--	--	--	--	--	--	--
11/02/81	1115	--	--	--	--	--	--	--	--	--	--
12/02/81	1130	--	--	--	--	--	--	--	--	--	--
01/05/82	1110	--	--	--	--	--	--	--	--	--	--
01/28/82	1100	8.8	54	2500	9.9	0.90	--	--	--	--	--
02/01/82	1205	--	--	--	--	--	--	--	--	--	--
02/16/82	1145	--	--	--	--	--	--	--	--	--	--
02/19/82	1000	--	--	--	--	--	--	--	--	--	--
02/22/82	1000	--	--	--	--	--	--	--	--	--	--
03/01/82	1100	--	--	--	--	--	--	--	--	--	--
04/01/82	1130	--	--	--	--	--	--	--	--	--	--
04/21/82	1220	--	--	--	--	--	--	--	--	--	--
04/29/82	1000	8.1	49	2300	9.5	1.0	--	<0.50	46.0	12	0
05/12/82	1120	--	--	--	--	--	--	--	--	--	--
05/24/82	1350	--	--	--	--	--	--	--	--	--	--
06/03/82	1055	--	--	--	--	--	--	--	--	--	--
06/17/82	0950	--	--	--	--	--	--	--	--	--	--
07/06/82	1220	--	--	--	--	--	--	--	--	--	--
07/16/82	1100	--	--	--	--	--	--	--	--	--	--
07/28/82	1145	9.2	36	1700	8.6	0.60	--	--	--	18	--
08/03/82	2000	--	--	--	--	--	--	--	--	--	--
08/04/82	1000	--	--	--	--	--	--	--	--	--	--
08/10/82	1130	--	--	--	--	--	--	--	--	--	--
08/11/82	1030	--	--	--	--	--	--	--	--	--	--
08/11/82	1115	--	--	--	--	--	--	--	--	--	--
08/16/82	1130	--	--	--	--	--	--	--	--	--	--
08/25/82	0900	--	--	--	--	--	--	--	--	--	--

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	AMMONIA DISS (AS N) (MG/L)	NITRITE DISS (AS N) (MG/L)	NITRATE DISS (AS N) (MG/L)	NITRITE PLUS NITRATE DISS (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/L)	NITRO-GEN, ORGANIC DISS (AS N) (MG/L)	NITRO-GEN DISS (AS N) (MG/L)	PHOS-PHORUS, ORTHO DISS (AS P) (MG/L)
10/04/81	2200	--	--	--	--	--	--	--	--	--	--
10/04/81	2400	--	--	--	--	--	--	--	--	--	--
10/05/81	1120	--	--	--	--	--	--	--	--	--	--
10/20/81	1205	--	--	--	--	--	--	--	--	--	--
11/02/81	1115	--	--	--	--	--	--	--	--	--	--
12/02/81	1130	--	--	--	--	--	--	--	--	--	--
01/05/82	1110	--	--	--	--	--	--	--	--	--	--
01/28/82	1100	--	--	--	0.65	--	--	--	--	--	0.020
02/01/82	1205	--	--	--	--	--	--	--	--	--	--
02/16/82	1145	--	--	--	--	--	--	--	--	--	--
02/19/82	1000	--	--	--	--	--	--	--	--	--	--
02/22/82	1000	--	--	--	--	--	--	--	--	--	--
03/01/82	1100	--	--	--	--	--	--	--	--	--	--
04/01/82	1130	--	--	--	--	--	--	--	--	--	--
04/21/82	1220	--	--	--	--	--	--	--	--	--	--
04/29/82	1000	0.120	<0.020	--	0.29	0.79	0.05	0.84	0.67	1.1	0.010
05/12/82	1120	--	--	--	--	--	--	--	--	--	--
05/24/82	1350	--	--	--	--	--	--	--	--	--	--
06/03/82	1055	--	--	--	--	--	--	--	--	--	--
06/17/82	0950	--	--	--	--	--	--	--	--	--	--
07/06/82	1220	--	--	--	--	--	--	--	--	--	--
07/16/82	1100	--	--	--	--	--	--	--	--	--	--
07/28/82	1145	0.130	0.030	0.24	0.27	1.3	140	140	1.2	1.6	0.020
08/03/82	2000	--	--	--	--	--	--	--	--	--	--
08/04/82	1000	--	--	--	--	--	--	--	--	--	--
08/10/82	1130	--	--	--	--	--	--	--	--	--	--
08/11/82	1030	--	--	--	--	--	--	--	--	--	--
08/11/82	1115	--	--	--	--	--	--	--	--	--	--
08/16/82	1130	--	--	--	--	--	--	--	--	--	--
08/25/82	0900	--	--	--	--	--	--	--	--	--	--

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PHOS-PHORUS DISS. (AS P) (MG/L)	PHOS-PHORUS, TOTAL (AS P) (MG/L)	ALUM-INUM DISS (UG/L)	ARSENIC DISS (UG/L)	BARIUM DISS (UG/L)	BERYL-LIUM DIS-OLVED (UG/L)	BORON DISS (UG/L)	CADMIUM DISS (UG/L)	CHRO-MIUM DISS (UG/L)	COBALT DISS (UG/L)
10/04/81	2200	--	--	--	--	--	--	--	--	--	--
10/04/81	2400	--	--	--	--	--	--	--	--	--	--
10/05/81	1120	--	--	--	--	--	--	--	--	--	--
10/20/81	1205	--	--	--	--	--	--	--	--	--	--
11/02/81	1115	--	--	--	--	--	--	--	--	--	--
12/02/81	1130	--	--	--	--	--	--	--	--	--	--
01/05/82	1110	--	--	--	--	--	--	--	--	--	--
01/28/82	1100	--	--	--	--	--	--	1900	--	--	--
02/01/82	1205	--	--	--	--	--	--	--	--	--	--
02/16/82	1145	--	--	--	--	--	--	--	--	--	--
02/19/82	1000	--	--	--	--	--	--	--	--	--	--
02/22/82	1000	--	--	--	--	--	--	--	--	--	--
03/01/82	1100	--	--	--	--	--	--	--	--	--	--
04/01/82	1130	--	--	--	--	--	--	--	--	--	--
04/21/82	1220	--	--	--	--	--	--	--	--	--	--
04/29/82	1000	0.020	0.020	10	1	100	<10	1800	<1	<10	--
05/12/82	1120	--	--	--	--	--	--	--	--	--	--
05/24/82	1350	--	--	--	--	--	--	--	--	--	--
06/03/82	1055	--	--	--	--	--	--	--	--	--	--
06/17/82	0950	--	--	--	--	--	--	--	--	--	--
07/06/82	1220	--	--	--	--	--	--	--	--	--	--
07/16/82	1100	--	--	--	--	--	--	--	--	--	--
07/28/82	1145	0.080	1.900	--	--	--	--	510	--	--	--
08/03/82	2000	--	--	--	--	--	--	--	--	--	--
08/04/82	1000	--	--	--	--	--	--	--	--	--	--
08/10/82	1130	--	--	--	--	--	--	--	--	--	--
08/11/82	1030	--	--	--	--	--	--	--	--	--	--
08/11/82	1115	--	--	--	--	--	--	--	--	--	--
08/16/82	1130	--	--	--	--	--	--	--	--	--	--
08/25/82	0900	--	--	--	--	--	--	--	--	--	--

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	COPPER DISS (UG/L)	CYANIDE TOTAL (MG/L AS CN)	IRON DISS (UG/L)	LEAD DISS (UG/L)	LITHIUM DISS (UG/L)	MAN-GANESE DISS (UG/L)	MERCURY DISS (UG/L)	MOLYB-DENUM DISS (UG/L)	NICKEL DISS (UG/L)	PHENOLS (UG/L)
10/04/81	2200	--	--	--	--	--	--	--	--	--	--
10/04/81	2400	--	--	--	--	--	--	--	--	--	--
10/05/81	1120	--	--	--	--	--	--	--	--	--	--
10/20/81	1205	--	--	--	--	--	--	--	--	--	--
11/02/81	1115	--	--	--	--	--	--	--	--	--	--
12/02/81	1130	--	--	--	--	--	--	--	--	--	--
01/05/82	1110	--	--	--	--	--	--	--	--	--	--
01/28/82	1100	--	--	30	--	--	50	--	--	--	--
02/01/82	1205	--	--	--	--	--	--	--	--	--	--
02/16/82	1145	--	--	--	--	--	--	--	--	--	--
02/19/82	1000	--	--	--	--	--	--	--	--	--	--
02/22/82	1000	--	--	--	--	--	--	--	--	--	--
03/01/82	1100	--	--	--	--	--	--	--	--	--	--
04/01/82	1130	--	--	--	--	--	--	--	--	--	--
04/21/82	1220	--	--	--	--	--	--	--	--	--	--
04/29/82	1000	41	0.01	110	<1	130	80	<0.10	37	1	4
05/12/82	1120	--	--	--	--	--	--	--	--	--	--
05/24/82	1350	--	--	--	--	--	--	--	--	--	--
06/03/82	1055	--	--	--	--	--	--	--	--	--	--
06/17/82	0950	--	--	--	--	--	--	--	--	--	--
07/06/82	1220	--	--	--	--	--	--	--	--	--	--
07/16/82	1100	--	--	--	--	--	--	--	--	--	--
07/28/82	1145	--	--	110	--	--	20	--	--	--	--
08/03/82	2000	--	--	--	--	--	--	--	--	--	--
08/04/82	1000	--	--	--	--	--	--	--	--	--	--
08/10/82	1130	--	--	--	--	--	--	--	--	--	--
08/11/82	1030	--	--	--	--	--	--	--	--	--	--
08/11/82	1115	--	--	--	--	--	--	--	--	--	--
08/16/82	1130	--	--	--	--	--	--	--	--	--	--
08/25/82	0900	--	--	--	--	--	--	--	--	--	--

EVACUATION CREEK NEAR MOUTH NEAR WATSON, UT (STA. NO. 09306430) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SELE-NIUM DISS (UG/L)	SILVER DISS (UG/L)	STRON-TIUM DISS (UG/L)	VANA-DIUM DISS (UG/L)	ZINC DISS (UG/L)
10/04/81	2200	--	--	--	--	--
10/04/81	2400	--	--	--	--	--
10/05/81	1120	--	--	--	--	--
10/20/81	1205	--	--	--	--	--
11/02/81	1115	--	--	--	--	--
12/02/81	1130	--	--	--	--	--
01/05/82	1110	--	--	--	--	--
01/28/82	1100	--	--	--	--	--
02/01/82	1205	--	--	--	--	--
02/16/82	1145	--	--	--	--	--
02/19/82	1000	--	--	--	--	--
02/22/82	1000	--	--	--	--	--
03/01/82	1100	--	--	--	--	--
04/01/82	1130	--	--	--	--	--
04/21/82	1220	--	--	--	--	--
04/29/82	1000	3	<1	3800	<1.0	60
05/12/82	1120	--	--	--	--	--
05/24/82	1350	--	--	--	--	--
06/03/82	1055	--	--	--	--	--
06/17/82	0950	--	--	--	--	--
07/06/82	1220	--	--	--	--	--
07/16/82	1100	--	--	--	--	--
07/28/82	1145	--	--	--	--	--
08/03/82	2000	--	--	--	--	--
08/04/82	1000	--	--	--	--	--
08/10/82	1130	--	--	--	--	--
08/11/82	1030	--	--	--	--	--
08/11/82	1115	--	--	--	--	--
08/16/82	1130	--	--	--	--	--
08/25/82	0900	--	--	--	--	--

Plant Site Wash (Sta. No. 09306602)

- Station Analysis
- Discharge Measurement Summary Sheet
- Mean Daily Discharge
- Daily Temperature
- Daily Specific Conductance
- Water Quality Data

STATION ANALYSIS
1982 WATER YEAR

09306602 - Plant Site Wash

Equipment: Stage, water temperature, and specific conductance recorders enclosed in a 48-inch shelter on a 24-inch stilling well. Digital data recording equipment was used for recording water temperature and specific conductance. An A-71 analog stage recorder has been in operation since August 26, 1981.

Gauge Height Record: Complete for period of October 1-6, 1981 and March 9-September 30, 1982. Station was shut down during winter. Gauge responded to flow events but was affected by poor communication, particularly at low stage, caused by silt in stilling well on the recession following flow events.

Datum Corrections: None. Last levels dated August 10, 1981.

Rating: The sand channel is the control at this gauge. Five estimates, Nos. 1-5, of peak flows and one discharge measurement (No. 6) were made during year. Nineteen observations of no flow were documented by field notes. The estimates of peak discharge were determined from slope conveyance calculations at the station. The high water marks observed and a cross section made August 10, 1981 provided the components for determining cross sectional area used in estimate Nos. 1 and 2. Cross sections for Nos. 3, 4 and 5 were made at the gauge following each flow occurrence, by measuring down from a line strung at a known elevation. Channel bottom slope data provided by the survey on August 10, 1981, and a coefficient of roughness, .032, were used for all calculations. A grader operating in the channel, July 12, 1982, caused a significant change in the cross section at the gauge. Estimate No. 4, for the July 26 flow occurrence, was considered unreliable and not used in this analysis because an unstable channel condition would most likely follow the grading activity.

Rating Nos. 1, 2 and 3 were developed for each flow occurrence that had usable gauge height records.

Discharge: Discharge was computed as follows:

Oct 4,5:	Gauge height record and rating No. 1.
Aug 2:	Gauge height record and rating No. 2.
Sep 11,13:	Computed from gauge height record, rating No. 3, and partially estimated.

Daily mean discharge estimates for October 11, May 3, July 26, August 28 and September 28, 29 and 30 were based on peak discharge calculations and probable durations of flow. The estimate for July 26 was

09306602 (cont.)

determined by averaging calculations using the cross section measurements made on July 12 and 27.

The discharge measurement made on September 29 was determined to be the maximum flow in estimating discharge for September 28, 29 and 30.

Remarks: Records are rated fair, based primarily on methods used in determining peak discharges following each occurrence of flow. The overall operation of the gauging equipment and attention to maintenance relating to de-silting and communication restoration is very good.

H.E. Skjold
3/4/83

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 0430 602

DISCHARGE MEASUREMENTS OF Plant Wash (Station S-16), Utah DURING THE YEAR ENDING SEPT. 30, 19 82

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING SHIFT ADJ. FEET	RATING PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP AIR °C	TEMP H_2O °C	REMARKS
							1981	Water Year									
	9/08/81	J.W. Hale					0										Evidence of flow into well but no flow past station.
	10/06/81	J.W. Hale					0										HWM at 0.23 ft on inside stage. Closed station for winter.
	10/13/81	J.W. Hale															HWM at 0.68 ft on outside stage. recorder was not operating.
	3/01/82	J.W. Hale					0										Put station into operation.
	4/01/82	J.W. Hale					0										No evidence of flow. Temperature and conductivity recorder put into operation
			16.7	3.6	3.64		*20.4		a*	x-section [illegible]							
	5/05/82	J.W. Hale					0										HWMs at 0.23 ft on inside stage and 0.80 ft on outside stage. communication to well cut off by silt [illegible]. Cross-section [illegible].
	6/02/82	J.W. Hale					0										No evidence of flow.
	7/06/82	J.W. Hale					0										
	7/12/82	J.W. Hale					0										[illegible] Channel [illegible] graded.

COPIED BY _____ COMPUTED BY Munson CHECKED BY _____

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER [illegible]

DISCHARGE MEASUREMENTS OF Flint Wash (Station S-16), Utah

DURING THE YEAR ENDING SEPT. 30, 19[illegible]

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING SHIFT ADJ. FEET	RATING PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP AIR °C	TEMP H_2O °C	REMARKS
	[illegible]	J.W. Hale					0										
	[illegible]	E.L. Sieffer					0										No HWM.
	[illegible]	J.W. Hale					0				* using July 12 X-section						No evidence of flow.
	[illegible]	J.W. Hale	[illegible]	[illegible]	[illegible]		0				* [illegible] using July 26 X-section						HWM on D5 was 0.60 ft. Cross-section taken.
			[illegible]	[illegible]	[illegible]		* [illegible]										Communication was cut off to well.
	[illegible]	J.W. Hale					0										HWM on D5 was 0.48 ft. HWM on I5 was 0.46 ft.
																	On arrival, float was sitting on water
																	trapped in well at GH = 0.02 ft.
																	Cross-section taken. Removed water.
	[illegible]	J.W. Hale					0										No evidence of flow.
	[illegible]	J.W. Hale					0										Cross-section taken.
	[illegible]	J.W. Hale					0										
	[illegible]	J.W. Hale					0										HWM [illegible] was [illegible] ft. Cross-section was not [illegible]
																	[illegible] had not [illegible] channel.
	[illegible]	J.W. Hale					0										HWM on I5 = [illegible] ft.
	[illegible]	J.W. Hale					0										[illegible]
	[illegible]	[illegible]					0										[illegible]
1	[illegible]	[illegible] Hale	[illegible]	[illegible]	[illegible]	[illegible]	0.58			0.6	11	[illegible]	[illegible]	F	6.0	6.0	[illegible]
	[illegible]	[illegible]					[illegible] water level 0										

COPIED BY [illegible] COMPUTED BY S.D. Munson CHECKED BY

MEAN DAILY DISCHARGE (CFS)
SEPTEMBER 1981 TO OCTOBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00
4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.05
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.20
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.10
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.05	1.9	0.61
MEAN	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.07	0.03
MAX.	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.05	1.8	0.20
MIN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	1.2	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.00	0.10	3.8	1.2

WTR YR 1982 TOTAL: 4.0 MEAN: 0.02 MAX: 1.8 MIN: 0.00 ACRE-FT: 7.9

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO. 09306602)

DAILY TEMPERATURE (DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
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22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
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27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	---	---	---

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO.09306602)

DAILY TEMPERATURE (DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	11.0	11.0	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	11.0	11.0	---

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO. 093096602)

DAILY TEMPERATURE (DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	22.0	19.0	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	16.5	10.0	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	26.0	19.5	---	13.5	6.5	---
14	---	---	---	---	---	---	---	---	---	6.0	1.0	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	21.5	21.0	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	6.5	6.5	---
28	---	---	---	---	---	---	29.0	15.5	---	9.5	7.0	---
29	---	---	---	---	---	---	---	---	---	12.5	6.0	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	21.5	21.0	---	29.0	15.5	---	16.5	1.0	---
YEAR:	29.0	1.0	---									

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO. 09306602)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	---	---	---

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO. 09306602)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	210	190	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	210	190	---

PLANT SITE WASH NEAR WATSON, UTAH (STA. NO 09306602)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	410	200	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	170	110	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	220	120	---	220	130	---
14	---	---	---	---	---	---	---	---	---	140	110	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	252	252	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	220	220	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	204	152	---
28	---	---	---	---	---	---	180	170	---	492	404	---
29	---	---	---	---	---	---	---	---	---	394	250	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	220	220	---	410	120	---	492	110	---
YEAR:	492	110	---									

PLANT SITE WASH NEAR WATSON UT (STA. NO. 09306602)
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	WATER TEMPER-ATURE (DEG C)	SPECI-FIC CONDUC-TANCE FIELD (UMHOS)	PH FIELD (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SUSP SEDI-MENT DIS-CHARGE (T/DAY)	COLOR (PCU)	TURBI-DITY (NTU)	SUS-PENDED SOLIDS, RESIDUE @ 105 C (MG/L)
05/03/82	1930	E17	--	--	--	--	E74800	3433	--	--	--
07/26/82	2345	E4.4	--	--	--	--	E238000	2827	--	--	--
08/02/82	1800	E43	--	--	--	--	E140000	16254	--	--	--
09/13/82	1400	E0.90	11.0	200	--	--	--	--	--	--	--
09/29/82	0845	0.57	6.0	375	7.0	10.8	36500	57	--	1200	8810

DATE	TIME	TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	TOTAL DISS SOLIDS (SUM) (MG/L)	ALKALI-NITY, LAB (MG/L AS CACO3)	HARD-NESS TOTAL (AS CACO3) (MG/L)	HARD-NESS, NONCAR. (AS CACO3) (MG/L)	CALCIUM DISS (MG/L)	MAGNE-SIUM DISS (MG/L)	SODIUM DISS (MG/L)	SODIUM ADSORP-TION RATIO (SAR)	PERCENT SODIUM
05/03/82	1930	--	--	--	--	--	--	--	--	--	--
07/26/82	2345	--	--	--	--	--	--	--	--	--	--
08/02/82	1800	--	--	--	--	--	--	--	--	--	--
09/13/82	1400	--	--	--	--	--	--	--	--	--	--
09/29/82	0845	270	276	107	48	0	15	2.4	79	5.2	78

PLANT SITE WASH NEAR WATSON UT (STA. NO. 09306602) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	POTAS-SIUM DISS (MG/L)	CHLOR-IDE DISS (MG/L)	SUL-FATE DISS (MG/L)	SILICA DISS (MG/L)	FLUOR-IDE DISS (MG/L)	BROMIDE DISS (MG/L)	SULFIDE TOTAL (MG/L AS S)	OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	DIS-SOLVED ORGANIC CARBON (DOC) (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG/L)
05/03/82	1930	--	--	--	--	--	--	--	--	--	--
07/26/82	2345	--	--	--	--	--	--	--	--	--	--
08/02/82	1800	--	--	--	--	--	--	--	--	--	--
09/13/82	1400	--	--	--	--	--	--	--	--	--	--
09/29/82	0845	1.6	17	70	13	0.70	--	<5.0	350.0	--	6

DATE	TIME	AMMONIA DISS (AS N) (MG/L)	NITRITE DISS (AS N) (MG/L)	NITRATE DISS (AS N) (MG/L)	NITRITE PLUS NITRATE DISS (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/L)	NITRO-GEN, ORGANIC DISS (AS N) (MG/L)	NITRO-GEN DISS (AS N) (MG/L)	PHOS-PHORUS, ORTHO DISS (AS P) (MG/L)
05/03/82	1930	--	--	--	--	--	--	--	--	--	--
07/26/82	2345	--	--	--	--	--	--	--	--	--	--
08/02/82	1800	--	--	--	--	--	--	--	--	--	--
09/13/82	1400	--	--	--	--	--	--	--	--	--	--
09/29/82	0845	0.130	0.040	1.7	1.7	2.8	23	26	2.7	4.5	0.270

PLANT SITE WASH NEAR WATSON UT (STA. NO. 09306602) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PHOS-PHORUS DISS. (AS P) (MG/L)	PHOS-PHORUS, TOTAL (AS P) (MG/L)	ALUM-INUM DISS (UG/L)	ARSENIC DISS (UG/L)	BARIUM DISS (UG/L)	BERYL-LIUM DIS-OLVED (UG/L)	BORON DISS (UG/L)	CADMIUM DISS (UG/L)	CHRO-MIUM DISS (UG/L)	COBALT DISS (UG/L)
05/03/82	1930	--	--	--	--	--	--	--	--	--	--
07/26/82	2345	--	--	--	--	--	--	--	--	--	--
08/02/82	1800	--	--	--	--	--	--	--	--	--	--
09/13/82	1400	--	--	--	--	--	--	--	--	--	--
09/29/82	0845	0.300	9.200	2200	6	99	<1	70	<1	10	--

DATE	TIME	COPPER DISS (UG/L)	CYANIDE TOTAL (MG/L AS CN)	IRON DISS (UG/L)	LEAD DISS (UG/L)	LITHIUM DISS (UG/L)	MAN-GANESE DISS (UG/L)	MERCURY DISS (UG/L)	MOLYB-DENUM DISS (UG/L)	NICKEL DISS (UG/L)	PHENOLS (UG/L)
05/03/82	1930	--	--	--	--	--	--	--	--	--	--
07/26/82	2345	--	--	--	--	--	--	--	--	--	--
08/02/82	1800	--	--	--	--	--	--	--	--	--	--
09/13/82	1400	--	--	--	--	--	--	--	--	--	--
09/29/82	0845	85	<0.01	2300	<1	14	56	<0.10	1	13	7

DATE	TIME	SELE-NIUM DISS (UG/L)	SILVER DISS (UG/L)	STRON-TIUM DISS (UG/L)	VANA-DIUM DISS (UG/L)	ZINC DISS (UG/L)
05/03/82	1930	--	--	--	--	--
07/26/82	2345	--	--	--	--	--
08/02/82	1800	--	--	--	--	--
09/13/82	1400	--	--	--	--	--
09/29/82	0845	1	<1	190	23	30
09/29/82	0900	--	--	--	--	--

Southam Canyon Wash above Mouth, near Watson, Utah (Sta. No. 09306610)

- Station Analysis
- Discharge Measurement Summary Sheet
- Mean Daily Discharge
- Daily Temperature
- Water Quality Data

STATION ANALYSIS
1982 WATER YEAR

09306610 - Southam Canyon Wash near Mouth, near Watson, Utah

Equipment: Stage, water temperature, and specific conductance recorders in a 48-inch CMP shelter on a 24-inch CMP stilling well. Digital data recording equipment was used for all parameters until October 6, 1981 (winter shutdown). On March 11, 1982 (the resumption of operation), an A-71 analog stage recorder was installed.

Gauge Height Record: The gauge provided a record of dates and times of flow occurrences. Minor differences, between recorded peaks and inside high-water marks, were noted. A more significant difference, increasing with stage, between inside and outside high water marks, indicated poor communication during flow events. A partial day record was provided with each flow occurrence.

Datum Corrections: None. Last levels dated October 9, 1979.

Rating: The sand channel, subject to scour and fill, is the control.

Eight, slope conveyance, indirect measurements, Nos. 38-45, and one discharge measurement, No. 46, were made during the year. For the indirect measurements (Nos. 38, 39, 44, 45), cross sectional areas at a point approximately eight feet downstream from the gauge were used. The coefficients of roughness and energy slope, derived from a slope area survey made in 1979, were used to complete the calculations. The water surface elevation for each calculation was determined by assuming a 0.12 foot drop over the distance between the gauge and the cross section.

Cross sectional areas for measurement Nos. 40, 41 and 42 were computed at the gauge. Plotting of these cross sections against the others, made downstream, show the channel converging significantly. Measurements 41 and 42 were recalculated using the August 3, 1982 cross section.

Rating No. 2 was developed as a base rating defined by measurement Nos. 44 and 46. Measurement No. 43 was not used in this analysis.

Shift curves 1, 2, 3, 4 and 5 were developed and used for calculating mean daily discharge for specific flow events.

Discharge: Discharge computations are as follows:

Oct 4,5: Analog chart with subdivision using shift curve No. 1.

09306610 (cont.)

Oct 11: An estimate of mean daily discharge was based on a calculation of peak instantaneous discharge of 50 cfs over a two-hour time duration divided by 24 hours.

May 2,3,4: Analog chart using shift cruve No. 2 to 2000 hours May 3, then using shift curve No. 3 to 0300 May 4, and estimating recession to zero at 0700 hours May 4.

May 23,24: Analog chart and shift curve No. 3.

Jul 26,27: Analog chart and shift curve No. 3 to 2300 hours, then using shift curve No. 4 to 0500 hours July 27.

Aug 2: Analog chart and shift curve No. 4, to 1730 hours then shift curve No. 5 to 2200 hours when communication became poor. An esimate of discharge for August 3 was based on expected recession to zero flow.

Aug 11: Discharge estimated assuming a one-half hour time duration of peak discharge of 6.2 cfs, from shift curve No. 5, divided by 24 hours.

Aug 13: Same method used for August 11 with a peak discharge of 13 cfs times one hour divided by 24 hours.

Aug 28,29: Analog chart, subdivided, using shift curve No. 5 to 1600 hours. Rating No. 2 was used with a positive shift of .03 feet for the remainder of this event based on measurement No. 45.

Sep 27,28
29: Flow was out of communication below 0.20 feet of stage (gauge height), however, minor peaks were recorded on September 27 and 28. The field notes, for October 29, implied measurement No. 46 was made during or near the peak of a short duration flow occurrence. The flow occurrences for these days were given assumed time durations of one-quarter, three-quarters and one-half hour, respectively.

Remarks: Records are fair.

H.E. Skjold
3/4/83

[illegible] → P[illegible] 1 of 3

vtn CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER [illegible]

DISCHARGE MEASUREMENTS OF [illegible]utham Canyon Wash at mouth, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 19[illegible]

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING SHIFT ADJ. FEET	RATING PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP. AIR	TEMP. H_2O	REMARKS
							3 Water Year										
	9/05/[illegible]	J.W. Hale					0		[illegible]								HWM [illegible] side stage was 0.66 ft. Restored communication to well.
			15.9	3.73	[illegible]	.80	1982 7.9	Water Year									
	10/[illegible]	J.W. Hale					0										On arrival float was sitting [illegible] water trapped [illegible] HWM [illegible] inside stage was 0.30 ft. Cross-section taken.
3[illegible]			1[illegible]	11.[illegible]	[illegible]	[illegible]	50			S.C.							[illegible] shut down for winter.
	[illegible]	J.W. Hale					0										HWM [illegible] inside stage was 1.22 ft.
																	Remove & water from well Cross-section taken.
	[illegible]	J.W. Hale					0										Station [illegible]
																	A[illegible] recorder [illegible]
																	to replace digital recorder.
	[illegible]	J.W. Hale					0										No [illegible]
	4/[illegible]	J.W. Hale					0										
[illegible]	5/[illegible]	J.W. Hale		[illegible]		[illegible]	0			S.C. [illegible]							HWM [illegible] inside stage was 0.76 ft. Cross-[illegible]
11	[illegible]		[illegible]	[illegible]		1.1[illegible]	33		"								taken at [illegible]
	[illegible]	J.W. Hale					0										HWM [illegible] inside stage was 1.10 ft. HWM on outside stage was 1.08 ft. Cross-section taken at [illegible]
11	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]			S.C.							

COPIED BY [illegible] COMPUTED BY _____ CHECKED BY _____

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER C9306610

DISCHARGE MEASUREMENTS OF Southam Canyon Wash at mouth, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 19 82

NO	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING SHIFT ADJ. FEET	RATING PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP. AIR	TEMP. H_2O	REMARKS
	5/[illegible]/82	J.W. Hale					0		[illegible]								HWM at 0.78 ft. Cross-section taken at gage.
	6/01/82	J.W. Hale					0										
	7/06/82	J.W. Hale					0										No evidence of flow.
	7/16/82	J.W. Hale					0										
	7/22/82	B.D. Sheffer					0										No evidence of flow. No HWMs.
	7/26/82	J.W. Hale					0										No evidence of flow.
[illegible]	7/[illegible] 7/27/82	J.W. Hale	[illegible]	7.34	[illegible]	[illegible]	10 0			S.C.							HWM on OS = 0.94 ft. HWM on IS = 0.91 ft.
44	[illegible]		17.3	17.1	[illegible]	[illegible]	[illegible]			S.C.							Cross-section taken.
	8/03/82	J.W. Hale					0										HWM on OS = 1.62 ft. HWM on IS = 1.50 ft.
																	Cross-section taken. Cleaned well.
	[illegible]/82	J.W. Hale					0										No evidence of flow.
	8/16/82	J.W. Hale					0										HWM on IS = 0.55 ft. Cross-section taken.
	[illegible]/82	J.W. Hale					0										
45	[illegible] 1/02/82	J.W. Hale	[illegible]	17.5	[illegible].31	[illegible]	93			S.C.							HWM on IS = 1.38 ft. Cross-section taken.
																	Cleaned well. Restored communication.
	[illegible]	J.W. Hale					0										No evidence of flow.
	9/22/82	J.W. Hale					0										HWM on IS = [illegible].10 ft.
	[illegible]	J.W. Hale					0										HWM on IS = 0.59 ft. Cross-section taken.
																	Cleaned well.

COPIED BY S. [illegible] COMPUTED BY _____ CHECKED BY _____

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09306610

DISCHARGE MEASUREMENTS OF Southam Canyon Wash at mouth, near Witson, Utah DURING THE YEAR ENDING SEPT. 30, 1982

NO	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING SHIFT ADJ. FEET	RATING PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP Air	TEMP H_2O	REMARKS
11	9/29/82	J. W. Hale	3.5	0.54	2.08	0.15	1.13			0.6	15	0.00	0.25	F	6.0	7.0	On arrival, flow was not reaching well.
																	Diverted all flow to well. Measured 50 ft
																	above gage. Control open.
							1953	Water Year									
	10/5/82	J. W. Hale					0										

COPIED BY [illegible] COMPUTED BY S.D. Munson CHECKED BY

SOUTHAM CANYON WASH AT MOUTH, NEAR WATSON, UTAH (STA. NO. 09306610)

MEAN DAILY DISCHARGE (CFS)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	11	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	1.0	0.00
4	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	4.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.06
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17	0.17
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	7.0	0.21
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	4.4	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	0.95	37	0.57
MEAN	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.04	1.2	0.02
MAX.	4.2	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.77	17	0.21
MIN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	8.7	0.00	0.00	0.00	0.00	0.00	0.00	7.8	0.00	1.9	73	1.1

WTR YR 1982 TOTAL: 47 MEAN: 0.13 MAX: 17 MIN: 0.00 ACRE-FT: 93

SOUTHAM CANYON WASH AT MOUTH, NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY TEMPERATURE (DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	14.0	13.5	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	14.0	13.5	---	---	---	---	---	---	---	---	---	---

SOUTHAM CANYON WASH AT MOUTH NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY TEMPERATURE (DEG. C)(CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	22.0	21.0	---
3	---	---	---	---	---	---	---	---	---	15.0	13.0	---
4	---	---	---	---	---	---	---	---	---	15.0	14.5	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	15.0	7.0	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	22.0	7.0	---

SOUTHAM CANYON WASH AT MOUTH NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY TEMPERATURE (DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	27.5	24.5	---	---	---	---
3	---	---	---	---	---	---	24.5	24.0	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	27.5	25.5	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	29.0	25.0	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	12.5	12.5	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	27.5	26.5	---	---	---	---	---	---	---
27	---	---	---	26.5	25.0	---	---	---	---	13.0	11.5	---
28	---	---	---	---	---	---	23.0	16.0	---	9.5	6.0	---
29	---	---	---	---	---	---	---	---	---	10.5	7.0	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	27.5	25.0	---	29.0	16.0	---	13.0	6.0	---
YEAR:	29.0	6.0	---									

SOUTHAM CANYON WASH AT MOUTH NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	---	---	---

SOUTHAM CANYON WASH AT MOUTH, NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	360	280	---
3	---	---	---	---	---	---	---	---	---	210	110	---
4	---	---	---	---	---	---	---	---	---	220	210	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	330	250	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	---	---	---	360	110	---

SOUTHAM CANYON WASH AT MOUTH, NEAR WATSON, UTAH (STA. NO. 09306610)

DAILY SPECIFIC CONDUCTANCE (UMHOS AT 25 DEG. C) (CONTINUED)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	160	130	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	370	230	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	140	100	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	220	166	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	184	104	---
28	---	---	---	---	---	---	256	56	---	242	146	---
29	---	---	---	---	---	---	---	---	---	576	524	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH:	---	---	---	---	---	---	370	56	---	576	104	---
YEAR:	576	56	---									

SOUTHAM CANYON WASH AT MOUTH NR WATSON, UT (STA. NO. 09306610)
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	WATER TEMPER-ATURE (DEG C)	SPECI-FIC CONDUC-TANCE FIELD (UMHOS)	PH FIELD (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SUSP SEDI-MENT DIS-CHARGE (T/DAY)	COLOR (PCU)	TURBI-DITY (NTU)	SUS-PENDED SOLIDS, RESIDUE @ 105 C (MG/L)
08/02/82	1810	E107	--	--	--	--	E273000	78870	--	--	--
09/29/82	1015	1.1	7.0	585	7.2	10.2	23800	71	150	1500	7410

DATE	TIME	TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	TOTAL DISS SOLIDS (SUM) (MG/L)	ALKALI-NITY, LAB (MG/L AS CACO3)	HARD-NESS TOTAL (AS CACO3) (MG/L)	HARD-NESS, NONCAR. (AS CACO3) (MG/L)	CALCIUM DISS (MG/L)	MAGNE-SIUM DISS (MG/L)	SODIUM DISS (MG/L)	SODIUM ADSORP-TION RATIO (SAR)	PERCENT SODIUM
08/02/82	1810	--	--	--	--	--	--	--	--	--	--
09/29/82	1015	372	360	148	79	0	28	2.0	94	4.7	72

DATE	TIME	POTAS-SIUM DISS (MG/L)	CHLOR-IDE DISS (MG/L)	SUL-FATE DISS (MG/L)	SILICA DISS (MG/L)	FLUOR-IDE DISS (MG/L)	BROMIDE DISS (MG/L)	SULFIDE TOTAL (MG/L AS S)	OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	DIS-SOLVED ORGANIC CARBON (DOC) (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG/L)
08/02/82	1810	--	--	--	--	--	--	--	--	--	--
09/29/82	1015	1.6	9.0	120	11	0.40	--	<5.0	210.0	11	4

SOUTHAM CANYON WASH AT MOUTH NR WATSON, UT (STA. NO. 09306610) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	AMMONIA DISS (AS N) (MG/L)	NITRITE DISS (AS N) (MG/L)	NITRATE DISS (AS N) (MG/L)	NITRITE PLUS NITRATE DISS (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/L)	NITRO-GEN, ORGANIC DISS (AS N) (MG/L)	NITRO-GEN DISS (AS N) (MG/L)	PHOS-PHORUS, ORTHO DISS (AS P) (MG/L)
08/02/82	1810	--	--	--	--	--	--	--	--	--	--
09/29/82	1015	<0.060	<0.020	--	0.92	1.2	0.00	1.0	--	2.1	0.180

DATE	TIME	PHOS-PHORUS DISS. (AS P) (MG/L)	PHOS-PHORUS, TOTAL (AS P) (MG/L)	ALUM-INUM DISS (UG/L)	ARSENIC DISS (UG/L)	BARIUM DISS (UG/L)	BERYL-LIUM DIS-OLVED (UG/L)	BORON DISS (UG/L)	CADMIUM DISS (UG/L)	CHRO-MIUM DISS (UG/L)	COBALT DISS (UG/L)
08/02/82	1810	--	--	--	--	--	--	--	--	--	--
09/29/82	1015	0.200	4.600	90	7	67	<1	80	<1	<10	--

DATE	TIME	COPPER DISS (UG/L)	CYANIDE TOTAL (MG/L AS CN)	IRON DISS (UG/L)	LEAD DISS (UG/L)	LITHIUM DISS (UG/L)	MAN-GANESE DISS (UG/L)	MERCURY DISS (UG/L)	MOLYB-DENUM DISS (UG/L)	NICKEL DISS (UG/L)	PHENOLS (UG/L)
08/02/82	1810	--	--	--	--	--	--	--	--	--	--
09/29/82	1015	80	<0.01	190	<1	16	5	0.10	8	<1	3

DATE	TIME	SELE-NIUM DISS (UG/L)	SILVER DISS (UG/L)	STRON-TIUM DISS (UG/L)	VANA-DIUM DISS (UG/L)	ZINC DISS (UG/L)
08/02/82	1810	--	--	--	--	--
09/29/82	1015	2	<1	460	19	40

Asphalt Wash at Mouth, Near Watson,
Utah (Sta. No. 09306625)

- Mean Daily Discharge

ASPHALT WASH AT MOUTH, NEAR WATSON, UTAH (STA. NO. 09306625)

MEAN DAILY DISCHARGE (CFS)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.00
3	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.02	0.00	0.00	0.00	0.00
4	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	7.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	---
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.50	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	7.7	0.00	0.00	0.00	0.00	0.50	0.00	0.02	0.00	0.00	47	216
MEAN	0.25	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00	1.5	7.4
MAX.	7.2	0.00	0.00	0.00	0.00	0.50	0.00	0.02	0.00	0.00	44	200
MIN.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	15	0.00	0.00	0.00	0.00	1.00	0.00	0.04	0.00	0.00	93	427

WTR YR 1982 TOTAL: 270 MEAN: 0.75 MAX: 200 MIN: 0.00 ACRE-FT: 536

White River Below Asphalt Wash, near
Watson, Utah (Sta. No. 09306700)

- Station Analysis
- Discharge Measurement Summary Sheet
- Mean Daily Discharge
- Daily Temperature
- Daily Specific Conductance
- Water Quality Data

STATION ANALYSIS
1982 WATER YEAR

09306700 - White River below Asphalt Wash, near Watson, Utah

Equipment: Digital and analog stage recorders driven by a manometer. Auxillary equipment includes two digital recorders to provide continuous record of water temperature and specific conductance.

Gauge Height Record: Record is complete for the year. Long periods of record show evidence of silt or sand over the orifice. Flat spots and "stepping" during some periods show evidence of a possible low pressure leak in the system.

Datum Corrections: None.

Rating: The natural channel with a rock riffle downstream is the control at this gauging station. During the year, 28 discharge measurements, Nos. 220-247, were made and used in this analysis.

Rating No. 8 was used all year with shifts ranging between -.03 feet to +.04 feet, noted during the period from October 1 to July 1. Negative shifts of 0.11 feet to 0.30 feet indicate possible sand or other material affecting the control. Measurements 224-227, made during winter, showed negative shifts ranging from a -0.10 feet to -0.39 feet, due to ice effect.

Discharge: Discharge computations were made using the primary records and rating No. 8 with applications of shifts made generally on a time-prorated basis. Whenever necessary, subdivision was performed manually using the primary gauge height record.

Discharge was estimated for the following periods by plotting suggested gauge heights on the analog chart guided by the low points of the "painting" in the gauge height trace.

Oct. 24-Nov. 10, 1981
Jan. 10-19, 1982
Feb. 17, 19 & 22
May 20-29
Aug. 14

Remarks: Record for some periods was affected by what appeared to be silt on the orifice.

H.E. Skjold
3/4/83

VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09306700

DISCHARGE MEASUREMENTS OF White River below Asphalt Wash, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 1982

NO	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 8 SHIFT ADJ. FEET	RATING # 8 PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP °C AIR (time)	TEMP °C H_2O (time)	REMARKS
							1981	Water		Year							
219	Sept 17	J.W. Hale	101.5	164	1.98	3.44	327	+.02	-0.6	.6 .2/.8	30	+.01	.92	G	-- (--)	17.8 (0950)	cable measurement. control open.
							1982	Water		Year							
220	Oct 01	J.W. Hale	97.5	153	1.75	3.30	267	-.01	0.0	.6 .2/.8	28	.00	1.0	G	12.5 (0940)	12.4 (0940)	cable measurement. control open.
221	Oct 21	J.W. Hale	110	201	2.14	3.71	430	-.01	-0.2	.6 .2/.8	30	-.01	1.0	G	7.5 (1030)	8.0 (1030)	cable measurement. control open.
222	Nov 09	J.W. Hale	106	191	2.23	3.66	426	+.03	-0.1	.6 .2/.8	29	.00	1.0	G	8 (1000)	5.5 (1000)	cable measurement. control open.
223	Nov 24	J.W. Hale				3.58	EST 390	—	—						-- (--)	3.0 (1030)	couldn't finish measurement due to equipment failure.
																	no ice in channel. control open.
224	Dec 01	J.W. Hale	92	171	1.80	3.51	307	ICE -.10	—	.6 .2/.8	27	+.02	1.0	F	-0.1 (--)	0.1 (--)	ice floating in channel and ice out from banks 4 ft. cable measurement.
—	Dec 16	J.W. Hale				3.40		—	—						-- (--)	0.2 (--)	control open. a lot of floating ice. No HWM
225	Jan 04	J.W. Hale	80	152	1.32	3.46	200	ICE -.39	—	.6 .2/.8	25	.00	1.0	F	-0.5 (1000)	0.1 (1000)	cable measurement. control 30% ice cover. [illegible]
—	Jan 18	J.W. Hale				4.12		—	—						-- (--)	0.0 (1100)	orifice frozen on arrival. ice jam causing backwater.
226	Jan 21	J.W. Hale	90	178	2.29	3.94	407	ICE -.29	—	.6 .2/.8	31	.00	1.25	F	-1 (1000)	0.0 (1000)	cable measurement some floating slush in channel. 50% ice cover on control.
227	Feb 08	J.W. Hale T. [illegible]	90	129	1.36	SILT 3.25	176	ICE -.26	—	.6 .2/.8	27	.00	1.58	F	-0.5 (1000)	0.0 (1000)	cable measurement some floating ice. 40% ice cover and large ice deposits on control.
—	Feb 25	J.W. Hale				4.68		—							6.5 (1040)	0.5 (1100)	small amount of ice on control. cleared orifice from silt.
228	Mar 05	J.W. Hale	132	253	[illegible]	4.28	717	.00	-0.3	.6 .2/.8	32	.00	1.0	G-F	[illegible]	0.5 (1000)	cable measurement. control open.

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CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER 09306700

DISCHARGE MEASUREMENTS OF White River below Asphalt Wash, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 1982

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 8 SHIFT ADJ. FEET	RATING # 8 PERCENT DIFF.	METHOD	NUMBER MEAS SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP °C AIR (time)	TEMP °C H_2O (time)	REMARKS
229	Mar 16	J.W. Hale	114	199	2.21	3.73	440	-.01	0.0	.6 .2/.8	29	.00	.83	G	13.0 (1000)	6.7 (1000)	cable measurement. control open.
230	Apr 02	J.W. Hale	101	192	1.93	3.49	352	+.03	-0.4	.6 .2/.8	28	-.02	.92	G	11.0 (1200)	8.0 (1230)	cable measurement. control open.
231	Apr 13	J.W. Hale	108.5	187	2.09	3.64	390	-.03	-0.4	.6 .2/.8	29	.00	1.0	G	17.0 (0945)	10.5 (0945)	cable measurement. control open.
232	Apr 20	J.W. Hale	121	227	2.57	4.04	584	-.02	-0.2	.6 .2/.8	31	.00	1.0	G	7.0 (1200)	6.5 (1230)	cable measurement. control open. some
																	boils of flow in middle of channel.
233	Apr 27	J.W. Hale	123	255	2.80	4.26	714	+.01	+0.1	.6 .2/.8	32	.00	1.0	G-F	18.0 (1220)	13.0 (1220)	cable measurement. control open. boils
																	of flow occurring.
234	May 04	J.W. Hale	135	377	3.64	5.35	1374	+.02	-0.1	.6 .2/.8	31	.00	1.25	G	19.0 (1200)	14.3 (1200)	cable measurement. control open.
235	May 13	J.W. Hale	135	376	3.61	5.33	1356	+.01	0.0	.6 .2/.8	30	-.03	1.08	G	14.5 (0915)	9.0 (0915)	cable measurement. control open.
236	May 26	J.W. Hale	138	497	4.13	6.30	2054	+.04	0.0	.6 .2/.8	29	.00	1.17	G	25.0 (1200)	14.8 (1200)	cable measurement control open. on
																	[illegible]
																	and [illegible]
237	June 04	J.W. Hale	136	414	4.03	6.18	1412	-.03	0.0	.6 .2/.8	30	.00	1.25	G-F	24.0 (1130)	15.0 (1130)	cable measurement control open. boils
																	of flow occurring.
[illegible]	June 15	J.W. Hale B. [illegible]	137	489	4.19	6.29	2049	+.04	+0.1	.6 .2/.8	30	.00	1.0	G	21.0 (1130)	14.8 (1130)	cable measurement control open.
[illegible]	June [illegible]	J.W. Hale	135	484	4.14	6.28	2020	+.01	+0.1	.6 .2/.8	29	.00	1.17	G	21.0 (0900)	15.5 (09[illegible])	cable measurement control open.
[illegible]	July [illegible]	J.W. Hale	137	413	4.03	6.28	1989	-.03	+0.1	.6 .2/.8	30	+.04	1.33	G-F	23.0 (1200)	17.5 (120[illegible])	cable measurement. boils of flow occurring.
241	[illegible]	J.W. Hale	134	367	3.56	5.72	1307	-.16	+0.2	.6 .2/.8	31	.00	1.0	G	24.0 (1010)	17.5 (10[illegible])	cable measurement control open.
[illegible]	July 17	[illegible]	132	282	2.93	4.58	825	-.11	+0.2	.6 .2/.8	29	-.01	1.0	G	23.0 (0830)	19.5 (08[illegible])	cable measurement control open.

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VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER [illegible]

DISCHARGE MEASUREMENTS OF White River below Asphalt Wash, near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 19 85

NO	DATE	MADE BY	WIDTH FEET	AREA SQ.FT.	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 8 SHIFT ADJ. FEET	RATING # 8 PERCENT DIFF.	METHOD	NUMBER MEAS. SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS. RATED	TEMP °C AIR (time)	TEMP °C H_2O (time)	REMARKS
243	July 27	J.W. Hale	132	240	2.59	4.25	622	-.16	+0.3	.6 .2/.8	31	.00	1.0	G	23 (0900)	22.3 (0900)	cable measurement.
244	Aug 05	J.W. Hale	132	248	2.44	4.24	605	-.18	0.0	.6 .2/.8	31	.00	.92	G	20.5 (0915)	19.5 (0915)	cable measurement. control open.
245	Aug 12	J.W. Hale	114	214	2.48	4.04	530	-.13	0.0	.6 .2/.8	34	+.08	1.0	G	25.0 (1015)	[illegible] (1015)	cable measurement HWM at 5.10 ft on graphical recorder on Aug 11.
246	Aug 19	J.W. Hale				4.10	EST 560	-.13							26 (1000)	21.2 (1000)	visit.
247	Aug 26	J.W. Hale				3.79									30 (1300)		visit.
246	Sep 01	J.W. Hale	110	207	2.19	3.87	454	-.12	0.0	.6 .2/.8	30	-.03	.92	G	24.0 (1000)	19.5 (1015)	cable measurement. control open.
249	Sep 17	J.W. Hale				4.30									20 (1100)	15 (1100)	Visit.
247	Sep 20	J.W. Hale	126	230	2.44	4.27	562	-.30	+0.4	.6 .2/.8	27	-.04	2.0	G		16.2 (1030)	cable measurement
						1983 Water Year											
248	Oct 8	J.W. Hale	127	244	2.43	4.22	594	-.18	-0.2	.6 .2/.8	30	.00	1.50	G	6.5 (0955)	8.5 (0955)	Cable measurement. Control open.

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VTN CONSOLIDATED, INC.
Environmental Sciences Division

DISCHARGE MEASUREMENT SUMMARY SHEET

STATION NUMBER [illegible]

DISCHARGE MEASUREMENTS OF White River below Highway 88 near Watson, Utah DURING THE YEAR ENDING SEPT. 30, 19 83

NO.	DATE	MADE BY	WIDTH FEET	AREA SQ FT	MEAN VELOCITY FPS	GAGE HEIGHT FEET	DISCHARGE CFS	RATING # 8 SHIFT ADJ. FEET	RATING # 8 PERCENT DIFF.	METHOD	NUMBER MEAS SECTIONS	GAGE HEIGHT CHANGE FEET	TIME HOUR	MEAS RATED	TEMP °C AIR (time)	TEMP °C H_2O (time)	REMARKS
243	July 27	J.W. Hale	132	240	2.59	4.25	622	-.16	+0.3	.6 .2/.8	31	.00	1.0	G	23 (0900)	22.3 (0900)	cable measurement.
244	Aug 05	J.W. Hale	132	248	2.44	4.24	605	-.18	0.0	.6 .2/.8	31	.00	.92	G	20.5 (0915)	19.5 (0915)	cable measurement. control open.
245	Aug 12	J.W. Hale	114	214	2.48	4.04	530	-.13	0.0	.6 .2/.8	34	+.08	1.0	G	25.0 (1015)	21.2 (1015)	cable measurement HWM at 5.10 ft on graphical recorder on Aug 11.
246	Aug 19	J.W. Hale				4.10	EST 560	-.13							26 (1000)	21.2 (1000)	visit.
247	Aug 26	J.W. Hale				3.79									30 (1300)		visit.
246	Sep 01	J.W. Hale	110	207	2.19	3.87	454	-.12	0.0	.6 .2/.8	30	-.03	.92	G	24.0 (1000)	19.5 (1015)	cable measurement control open.
246	Sep 17	J.W. Hale				4.30									20 (1100)	15 (1100)	Visit.
247	Sep 20	J.W. Hale	126	230	2.44	4.27	562	-.30	+0.4	.6 .2/.8	27	-.04	2.0	G		16.2 (1030)	cable measurement
						1983 Water Year											
248	Oct 18	J.W. Hale	127	244	2.43	4.22	594	-.18	-0.2	.6 .2/.8	30	.00	1.50	G	6.5 (0955)	8.5 (0955)	Cable measurement. control open.

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WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO 09306700)

MEAN DAILY DISCHARGE (CFS)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	496	300	310	360	1000	387	867	2190	1970	580	424
2	277	463	240	330	340	1100	383	937	2060	1960	550	431
3	291	450	270	210	390	1340	417	1130	1980	1970	560	413
4	333	440	200	200	330	1320	413	1350	1850	1780	708	395
5	1750	440	330	170	290	725	378	1570	1720	1620	620	464
6	837	440	310	210	260	585	400	1740	1720	1490	570	660
7	501	430	340	140	200	481	404	1470	1850	1440	505	550
8	454	420	340	160	170	431	409	1330	1770	1300	491	460
9	510	420	320	250	170	422	409	1260	1790	1160	587	440
10	496	410	340	250	180	426	374	1320	1970	1170	565	630
11	545	400	340	200	330	454	391	1380	2000	1190	595	620
12	1620	390	340	160	310	454	387	1400	1850	1050	735	800
13	1060	390	340	300	400	535	391	1370	1910	1000	686	790
14	620	400	330	400	400	472	491	1430	2000	925	741	1020
15	540	400	320	410	400	431	491	1360	2020	901	630	730
16	907	390	310	430	530	449	530	1250	1970	856	585	650
17	796	390	310	440	630	458	575	1150	1850	829	510	640
18	590	390	290	450	670	454	570	1130	1920	779	431	620
19	510	400	290	460	780	449	565	1220	2080	763	530	605
20	468	410	250	440	812	426	585	1330	2060	735	525	585
21	427	390	320	400	774	413	580	1470	2000	691	486	530
22	417	390	340	370	876	395	540	1460	2000	650	585	501
23	409	410	350	370	913	374	535	1570	2000	635	748	467
24	427	410	280	380	967	378	555	1770	2020	605	540	449
25	431	409	150	390	1090	382	600	2060	1940	580	426	454
26	440	390	120	400	1040	378	640	2050	1970	600	417	454
27	431	350	160	410	973	391	730	2160	1910	620	454	706
28	409	340	200	430	979	409	774	2370	1860	620	511	1130
29	418	310	160	430	---	395	796	2480	1870	870	510	1300
30	445	300	220	380	---	387	807	2400	1930	818	430	907
31	530	---	200	370	---	391	---	2440	---	697	460	---
TOTAL	18156	12068	8610	10270	15564	16705	15507	48274	58080	32274	17371	18825
MEAN	586	402	278	331	556	539	517	1557	1936	1041	560	628
MAX.	1750	496	350	460	1090	1340	807	2480	2190	1970	748	1300
MIN.	267	300	120	140	170	374	374	867	1720	580	417	395
AC-FT	36012	23937	17078	20371	30871	33134	30758	95751	115202	64015	34455	37337

WTR YR 1982 TOTAL: 271704 MEAN: 744 MAX: 2480 MIN: 120 ACRE-FT: 538925

WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO 09306700)
DAILY TEMPERATURE (DEG.C)
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.5	12.5	15.5	5.0	2.0	3.5	0.5	0.0	0.0	0.0	0.0	0.0
2	16.0	14.0	15.0	4.5	1.5	3.0	0.5	0.0	0.0	0.0	0.0	0.0
3	17.5	14.0	15.0	5.0	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
4	14.5	12.5	13.5	5.5	2.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
5	12.5	10.0	11.0	5.5	2.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0
6	14.0	9.5	11.5	5.0	3.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0
7	14.0	10.5	12.5	7.0	4.5	5.5	0.5	0.0	0.0	0.0	0.0	0.0
8	13.0	11.5	12.0	6.5	3.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0
9	12.0	9.0	10.5	7.0	3.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
10	12.0	9.0	10.5	5.5	3.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0
11	11.0	8.5	10.0	5.5	2.5	4.0	0.5	0.0	0.0	0.0	0.0	0.0
12	8.5	6.5	7.5	5.5	2.0	4.0	0.5	0.0	0.0	0.0	0.0	0.0
13	8.5	7.0	7.5	6.0	3.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0
14	9.5	8.0	8.5	6.0	4.0	5.0	0.5	0.0	0.0	0.0	0.0	0.0
15	8.5	8.0	8.5	6.0	4.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0
16	8.0	6.5	7.0	6.5	3.5	5.0	1.0	0.0	0.5	0.0	0.0	0.0
17	9.0	6.0	7.5	5.0	3.5	4.5	0.5	0.0	0.0	0.0	0.0	0.0
18	9.5	7.0	8.0	5.0	3.0	4.0	0.5	0.0	0.0	0.5	0.0	0.0
19	9.5	7.5	8.5	3.5	1.0	2.5	0.5	0.0	0.0	0.5	0.0	0.0
20	9.5	8.0	9.0	2.0	0.5	1.5	1.0	0.0	0.5	0.0	0.0	0.0
21	10.5	7.5	9.5	2.0	0.0	1.0	1.5	0.5	1.0	0.0	0.0	0.0
22	10.0	6.5	8.5	2.5	0.0	1.5	1.0	0.0	0.5	0.0	0.0	0.0
23	9.5	6.0	8.0	3.5	1.5	2.5	0.5	0.0	0.0	0.0	0.0	0.0
24	8.0	6.5	7.0	7.5	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
25	8.0	4.5	6.5	4.0	1.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
26	8.0	4.5	6.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
27	8.5	5.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	9.0	5.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	7.5	6.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	7.5	5.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	5.5	3.0	4.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH:	17.5	3.0	9.0	7.5	0.0	3.0	1.5	0.0	0.0	0.5	0.0	0.0

WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO. 09306700)

TEMPERATURE (DEG. C), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
DAILY TEMPERATURE (DEG.C)

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	1.5	0.0	0.5	8.0	5.5	7.0	16.0	12.5	14.5
2	0.0	0.0	0.0	3.0	0.5	1.5	9.5	4.0	8.0	15.5	13.5	14.5
3	0.0	0.0	0.0	2.0	0.0	1.0	10.5	4.5	7.5	16.5	14.0	15.0
4	0.0	0.0	0.0	1.5	0.0	1.0	10.5	6.5	8.5	16.0	13.5	14.5
5	0.0	0.0	0.0	2.5	0.5	1.5	10.0	4.5	7.5	14.5	12.0	13.0
6	0.0	0.0	0.0	3.5	0.0	1.5	10.5	6.0	8.0	12.5	9.0	11.0
7	0.0	0.0	0.0	4.5	0.5	2.0	9.5	6.0	7.5	12.5	9.5	11.0
8	0.5	0.0	0.0	---	---	---	9.0	4.0	6.5	13.5	11.0	12.5
9	0.0	0.0	0.0	---	---	---	10.0	4.0	7.0	13.5	11.0	12.0
10	0.0	0.0	0.0	---	---	---	11.5	4.5	8.0	14.0	11.5	12.5
11	0.0	0.0	0.0	8.5	5.0	6.5	11.5	7.5	10.0	13.5	11.0	12.0
12	0.0	0.0	0.0	9.0	5.5	7.0	14.5	9.5	12.0	12.5	10.5	11.5
13	0.0	0.0	0.0	9.0	4.5	6.5	15.5	9.5	12.5	11.5	9.0	10.0
14	0.0	0.0	0.0	7.5	5.0	6.5	15.5	10.0	13.0	12.0	8.5	10.0
15	0.5	0.0	0.0	8.5	6.0	7.0	14.5	10.5	12.0	13.5	9.5	11.5
16	0.0	0.0	0.0	9.5	6.0	7.5	13.0	8.5	10.5	15.5	10.5	13.0
17	0.5	0.0	0.0	8.0	5.5	7.0	13.0	7.0	10.0	16.5	12.0	14.0
18	0.5	0.0	0.0	9.0	5.0	7.0	13.0	8.5	10.5	17.0	14.0	15.0
19	0.0	0.0	0.0	8.0	4.5	6.0	11.0	7.0	9.0	15.5	13.5	14.5
20	0.5	0.0	0.0	7.0	3.0	5.0	7.5	5.0	6.5	16.5	12.0	14.0
21	0.5	0.0	0.0	8.5	3.0	5.5	9.5	3.0	6.5	17.0	13.0	15.0
22	0.5	0.0	0.0	9.0	3.5	6.5	11.5	5.0	8.5	18.0	14.0	16.0
23	0.5	0.5	0.5	9.5	4.0	7.0	13.0	8.0	10.5	18.0	14.5	16.0
24	0.5	0.5	0.5	10.5	4.5	7.5	15.5	9.5	12.5	17.5	15.0	16.5
25	1.0	0.0	0.5	11.0	5.5	8.5	15.0	10.5	13.0	16.5	13.5	15.5
26	1.5	0.0	0.5	9.5	7.5	8.5	14.0	12.0	13.0	17.0	13.5	15.0
27	2.0	0.0	0.5	11.5	8.0	9.5	16.0	11.5	13.5	16.5	14.5	15.5
28	2.5	0.0	1.0	11.5	8.0	9.5	16.5	11.5	14.0	15.5	13.0	14.5
29	---	---	---	9.5	6.0	7.5	16.0	12.0	14.0	15.5	12.5	14.0
30	---	---	---	7.5	4.5	6.0	15.0	11.5	13.5	14.5	12.0	13.5
31	---	---	---	8.5	3.5	6.0	---	---	---	14.5	11.0	12.5
MONTH:	2.5	0.0	0.0	11.5	0.0	5.5	16.5	3.0	10.0	18.0	8.5	13.5

WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO. 09306700)
DAILY TEMPERATURE (DEG.C)
OCTOBER 1931 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.5	12.0	13.5	---	---	---	25.5	21.0	23.5	---	---	---
2	16.0	12.5	14.0	20.0	16.5	18.5	24.5	21.5	23.0	22.5	18.5	20.5
3	16.5	13.0	15.0	20.5	17.0	18.5	23.5	21.0	22.5	---	---	---
4	16.5	14.0	15.5	19.5	17.0	18.5	24.5	19.5	22.0	23.0	19.0	21.0
5	16.0	13.5	14.5	18.5	16.5	17.5	24.5	20.0	22.5	22.0	16.0	19.5
6	15.5	12.5	14.0	19.5	15.0	17.0	25.5	20.5	23.0	---	---	---
7	15.5	12.5	14.0	19.5	16.0	18.0	25.0	21.0	23.5	---	---	---
8	15.5	12.5	14.0	21.0	17.0	19.0	24.0	21.5	23.0	---	---	---
9	16.5	12.5	14.5	22.0	18.5	20.0	25.5	20.5	23.0	---	---	---
10	16.0	13.0	14.5	22.0	18.5	20.0	24.0	19.5	22.0	---	---	---
11	17.0	13.5	15.0	22.0	18.5	20.0	---	---	---	---	---	---
12	16.5	14.5	15.5	22.5	18.0	20.5	---	---	---	---	---	---
13	17.0	14.5	15.5	22.0	19.5	20.5	21.0	19.0	20.0	---	---	---
14	16.0	13.5	15.0	22.5	18.5	21.0	---	---	---	---	---	---
15	16.0	14.0	15.0	23.0	19.0	21.0	---	---	---	---	---	---
16	17.0	13.0	15.5	---	---	---	---	---	---	---	---	---
17	18.5	15.0	17.0	---	---	---	---	---	---	---	---	---
18	18.0	16.0	17.0	23.5	19.0	21.0	---	---	---	18.5	15.0	17.0
19	18.5	15.0	16.5	24.0	19.0	21.5	---	---	---	18.0	16.5	17.5
20	19.0	15.5	17.0	25.0	20.5	22.5	25.0	20.5	22.5	20.5	15.0	18.5
21	18.5	16.0	17.5	25.5	21.0	23.5	26.0	21.5	23.5	---	---	---
22	19.5	16.5	18.0	25.5	21.5	23.5	---	---	---	---	---	---
23	---	---	---	25.5	22.5	24.0	---	---	---	22.0	16.5	19.0
24	---	---	---	26.0	22.0	23.5	---	---	---	20.5	15.0	18.0
25	---	---	---	26.0	21.0	23.5	---	---	---	19.0	17.0	18.0
26	---	---	---	26.0	22.0	24.0	---	---	---	20.5	16.5	18.0
27	---	---	---	25.5	22.5	24.0	24.0	19.5	22.0	19.5	16.0	16.5
28	---	---	---	24.0	22.0	23.0	---	---	---	16.0	12.5	14.5
29	---	---	---	23.5	21.0	22.5	---	---	---	14.0	10.5	12.0
30	---	---	---	24.0	20.0	22.0	---	---	---	12.0	9.5	11.0
31	---	---	---	25.0	20.5	23.0	---	---	---	---	---	---
MONTH:	19.5	12.0	15.5	26.0	15.0	21.0	26.0	19.0	22.5	23.0	9.5	17.0
YEAR:	26.0	0.0	8.5									

WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO. 09306700)
DAILY SPECIFIC CONDUCTANCE

OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	934	814	864	950	883	906	960	881	921
2	---	---	---	837	810	824	---	---	---	881	858	868
3	---	---	---	846	810	834	---	---	---	877	845	861
4	---	---	---	867	844	856	---	---	---	851	842	847
5	---	---	---	863	850	858	905	856	885	848	834	842
6	---	---	---	863	840	855	1080	852	934	878	838	850
7	---	---	---	875	842	862	892	802	832	964	604	858
8	1130	812	836	876	849	863	845	815	831	898	666	771
9	1160	760	807	880	851	864	825	799	813	---	---	---
10	868	748	791	887	864	873	826	796	810	---	---	---
11	832	508	731	881	857	873	808	780	794	---	---	---
12	---	---	---	867	846	858	800	777	788	---	---	---
13	---	---	---	881	856	869	797	777	787	---	---	---
14	---	---	---	892	857	876	799	775	786	---	---	---
15	---	---	---	881	859	868	802	782	794	---	---	---
16	---	---	---	880	850	865	815	772	800	---	---	---
17	---	---	---	861	854	857	833	800	817	---	---	---
18	---	---	---	861	847	853	845	802	827	---	---	---
19	---	---	---	853	841	849	830	797	811	829	795	811
20	---	---	---	849	838	842	817	794	802	814	792	803
21	---	---	---	846	826	839	828	808	818	806	795	801
22	838	818	827	841	828	835	886	801	841	827	806	813
23	835	818	827	863	843	852	807	776	791	841	827	835
24	829	822	826	890	839	865	825	788	813	845	828	837
25	831	820	825	841	800	822	---	---	---	856	839	849
26	835	817	827	832	809	819	---	---	---	868	850	861
27	843	817	831	874	834	857	---	---	---	883	864	871
28	834	815	824	885	871	877	---	---	---	866	823	846
29	821	809	815	884	835	858	---	---	---	823	800	812
30	825	803	813	890	841	866	1090	962	1030	816	801	809
31	937	794	834	---	---	---	998	923	959	834	812	820
MONTH:	1160	508	815	934	800	855	1090	772	838	964	604	837

WHITE RIVER ASPHALT WASH, NEAR WATSON, UTAH (STA. NO. 09306700)
DAILY SPECIFIC CONDUCTANCE
OCTOBER 1981 TO SEPTEMBER 1982

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	861	834	849	852	688	725	985	932	959	698	662	677
2	862	834	849	891	693	841	963	930	948	736	700	718
3	863	843	851	946	632	779	957	894	933	---	---	---
4	866	844	856	894	883	887	895	842	859	---	---	---
5	891	863	874	1020	894	950	863	848	855	472	437	459
6	942	891	916	1050	998	1020	886	863	872	438	406	420
7	1200	944	1040	1130	971	1040	891	862	876	433	406	422
8	1280	1050	1170	1200	834	1080	874	859	865	454	433	445
9	1270	1050	1140	---	---	---	899	874	886	467	452	458
10	1410	1100	1330	---	---	---	914	897	905	467	452	461
11	1140	1110	1120	1070	981	1020	930	911	922	454	434	439
12	1130	1010	1070	1110	988	1030	963	931	946	437	427	431
13	1000	945	971	1080	1010	1030	960	932	944	449	432	439
14	945	882	908	1070	987	1020	941	905	922	577	448	511
15	894	872	883	1040	1020	1030	943	788	872	624	544	584
16	1090	875	915	1030	989	1000	850	745	796	622	598	609
17	1000	834	910	1000	984	994	745	533	640	598	554	571
18	1000	781	877	992	977	985	667	546	601	570	541	551
19	924	793	862	1000	970	984	650	480	534	547	515	532
20	940	721	847	1010	976	987	557	489	520	627	496	553
21	902	687	768	1050	1010	1030	556	530	543	615	448	489
22	876	648	750	1030	984	1010	653	532	555	452	437	445
23	715	684	696	1010	969	990	675	519	562	445	418	437
24	741	715	728	1150	975	1000	542	522	533	418	345	402
25	781	547	716	1130	992	1020	559	537	548	393	252	351
26	803	503	662	1000	957	981	653	514	567	355	242	320
27	858	738	834	966	941	953	690	512	612	369	331	357
28	897	848	872	951	924	938	624	522	567	349	174	277
29	---	---	---	955	930	946	636	566	590	329	213	307
30	---	---	---	983	951	974	680	632	652	311	298	308
31	---	---	---	988	945	968	---	---	---	321	308	316
MONTH:	1410	503	902	1200	632	973	985	480	746	736	174	458

WHITE RIVER BELOW ASPHALT WASH, NEAR WATSON, UTAH (STA. NO. 09306700)
DAILY SPECIFIC CONDUCTANCE

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	334	312	326	375	304	329	560	552	555	---	---	---
2	358	317	346	377	314	336	622	544	559	---	---	---
3	373	337	351	320	243	302	560	524	539	738	712	729
4	364	328	348	333	273	316	1200	---	---	744	720	728
5	347	336	341	354	326	338	---	---	---	736	456	664
6	361	339	353	359	347	351	664	634	648	---	---	---
7	343	299	327	372	352	360	644	596	629	---	---	---
8	382	319	335	395	370	383	670	570	602	---	---	---
9	388	326	346	411	393	402	676	608	639	---	---	---
10	336	304	323	423	411	419	952	618	771	---	---	---
11	337	313	324	439	415	426	716	---	---	---	---	---
12	345	329	337	432	417	425	1400	408	---	---	---	---
13	361	325	342	438	425	434	668	500	578	---	---	---
14	346	302	332	447	433	442	---	---	---	---	---	---
15	348	291	332	460	444	454	---	---	---	---	---	---
16	350	322	333	472	458	465	---	---	---	---	---	---
17	352	339	346	465	449	460	---	---	---	---	---	---
18	359	336	350	467	451	457	---	---	---	---	---	---
19	340	299	320	465	453	460	---	---	---	---	---	---
20	317	302	309	465	439	449	674	538	584	---	---	---
21	327	307	315	458	442	446	556	534	544	665	598	636
22	322	292	310	462	444	454	---	---	---	693	605	631
23	332	301	310	464	450	458	---	---	---	628	602	615
24	331	306	315	465	453	457	---	---	---	638	611	622
25	348	309	336	515	459	469	---	---	---	631	564	592
26	352	328	339	491	463	471	---	---	---	567	548	559
27	361	336	347	488	453	464	724	672	684	567	537	552
28	349	343	346	690	472	543	---	---	---	964	569	638
29	348	328	344	914	514	653	---	---	---	669	642	655
30	344	315	328	1480	582	980	---	---	---	849	526	709
31	---	---	---	668	552	585	---	---	---	---	---	---
MONTH:	388	291	334	1480	243	451	1400	408	611	964	456	641

YEAR: 1480 174 699

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700)
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM FLOW, INSTAN-TANEOUS (CFS)	WATER TEMPER-ATURE (DEG C)	SPECI-FIC CONDUC-TANCE FIELD (UMHOS)	PH FIELD (UNITS)	DIS-SOLVED OXYGEN (MG/L)	SEDI-MENT, SUS-PENDED (MG/L)	SUSP SEDI-MENT DIS-CHARGE (T/DAY)	COLOR (PCU)	TURBI-DITY (NTU)	SUS-PENDED SOLIDS, RESIDUE @ 105 C (MG/L)
10/01/81	1030	267	12.0	760	7.4	8.8	284	205	--	--	--
10/21/81	1130	430	8.0	830	8.2	9.2	806	936	--	--	--
11/09/81	1130	426	5.0	880	8.6	10.2	341	392	--	--	--
12/01/81	1050	307	0.0	950	--	10.8	248	206	--	--	--
12/16/81	1020	E270	0.0	800	8.6	11.2	340	248	--	--	--
01/04/82	1045	200	0.0	850	8.2	9.8	50	27	--	--	--
01/21/82	1245	407	--	--	--	--	282	310	--	--	--
01/28/82	0930	408	0.0	850	--	--	--	--	--	--	--
02/08/82	1000	176	0.0	1200	8.2	11.4	167	79	--	--	--
03/05/82	1030	717	0.5	900	8.4	--	4640	8983	--	--	--
03/16/82	1000	440	6.5	1000	8.6	10.0	732	870	--	--	--
04/02/82	1200	352	8.0	950	8.6	10.0	290	276	--	--	--
04/13/82	0915	390	15.5	950	8.4	8.9	473	498	--	--	--
04/20/82	1200	584	6.5	--	8.0	10.2	1390	2192	--	--	--
04/27/82	1220	714	13.5	670	8.4	8.4	2250	4338	--	--	--
05/04/82	1145	1370	14.5	560	7.8	8.0	7020	25967	--	--	--
05/13/82	1115	1360	10.0	440	--	8.8	2570	9437	--	--	--
05/26/82	1130	2050	15.0	350	8.2	8.2	3350	18542	--	--	--
06/04/82	1145	1910	15.0	340	8.3	8.0	2110	10881	--	--	--
06/15/82	1100	2050	14.5	338	7.8	7.8	1710	9465	50	190	438
06/22/82	1130	2020	15.5	310	8.2	7.6	1320	7199	--	--	--
07/01/82	1225	1990	17.5	310	7.0	7.8	1360	7307	--	--	--
07/08/82	1215	1310	19.0	380	8.2	7.5	1200	4244	--	--	--
07/17/82	0810	825	19.5	465	7.4	--	605	1348	--	--	--
07/27/82	1100	622	23.0	470	7.8	6.8	750	1260	--	--	--
08/05/82	1145	605	21.0	600	7.8	7.0	2390	3904	--	--	--
08/12/82	1015	530	21.0	650	7.7	6.6	4320	6182	--	--	--
08/19/82	0945	E560	21.0	690	--	--	2160	3266	--	--	--
09/01/82	1000	454	19.0	700	8.2	7.6	1930	2366	--	--	--
09/20/82	1100	562	16.0	820	8.0	7.6	14600	22154	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1992

DATE	TIME	TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	TOTAL DISS SOLIDS (SUM) (MG/L)	ALKALI-NITY, LAB (MG/L AS CACO3)	HARD-NESS TOTAL (AS CACO3) (MG/L)	HARD-NESS, NONCAR. (AS CACO3) (MG/L)	CALCIUM DISS (MG/L)	MAGNE-SIUM DISS (MG/L)	SODIUM DISS (MG/L)	SODIUM ADSORP-TION RATIO (SAR)	PERCENT SODIUM
10/01/81	1030	--	--	--	--	--	--	--	--	--	--
10/21/81	1130	--	--	--	--	--	--	--	--	--	--
11/09/81	1130	--	--	--	--	--	--	--	--	--	--
12/01/81	1050	--	--	--	--	--	--	--	--	--	--
12/16/81	1020	--	--	--	--	--	--	--	--	--	--
01/04/82	1045	--	--	--	--	--	--	--	--	--	--
01/21/82	1245	--	--	--	--	--	--	--	--	--	--
01/28/82	0930	--	511	200	290	85	71	26	31	1.7	31
02/08/82	1000	--	--	--	--	--	--	--	--	--	--
03/05/82	1030	--	--	--	--	--	--	--	--	--	--
03/16/82	1000	--	--	--	--	--	--	--	--	--	--
04/02/82	1200	--	--	--	--	--	--	--	--	--	--
04/13/82	0915	--	--	--	--	--	--	--	--	--	--
04/20/82	1200	--	--	--	--	--	--	--	--	--	--
04/27/82	1220	--	--	--	--	--	--	--	--	--	--
05/04/82	1145	--	--	--	--	--	--	--	--	--	--
05/13/82	1115	--	--	--	--	--	--	--	--	--	--
05/26/82	1130	--	--	--	--	--	--	--	--	--	--
06/04/82	1145	--	--	--	--	--	--	--	--	--	--
06/15/82	1100	222	215	119	160	38	43	12	13	0.50	15
06/22/82	1130	--	--	--	--	--	--	--	--	--	--
07/01/82	1225	--	--	--	--	--	--	--	--	--	--
07/08/82	1215	--	--	--	--	--	--	--	--	--	--
07/17/82	0810	--	--	--	--	--	--	--	--	--	--
07/27/82	1100	--	--	--	--	--	--	--	--	--	--
08/05/82	1145	--	--	--	--	--	--	--	--	--	--
08/12/82	1015	--	--	--	--	--	--	--	--	--	--
08/19/82	0945	--	--	--	--	--	--	--	--	--	--
09/01/82	1000	--	--	--	--	--	--	--	--	--	--
09/20/82	1100	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	POTAS-SIUM DISS (MG/L)	CHLOR-IDE DISS (MG/L)	SUL-FATE DISS (MG/L)	SILICA DISS (MG/L)	FLUOR-IDE DISS (MG/L)	BROMIDE DISS (MG/L)	SULFIDE TOTAL (MG/L AS S)	OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	DIS-SOLVED ORGANIC CARBON (DOC) (MG/L)	OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG/L)
10/01/81	1030	--	--	--	--	--	--	--	--	--	--
10/21/81	1130	--	--	--	--	--	--	--	--	--	--
11/09/81	1130	--	--	--	--	--	--	--	--	--	--
12/01/81	1050	--	--	--	--	--	--	--	--	--	--
12/16/81	1020	--	--	--	--	--	--	--	--	--	--
01/04/82	1045	--	--	--	--	--	--	--	--	--	--
01/21/82	1245	--	--	--	--	--	--	--	--	--	--
01/28/82	0930	1.6	26	190	15	0.30	0.00	0.50	14.0	3.3	--
02/08/82	1000	--	--	--	--	--	--	--	--	--	--
03/05/82	1030	--	--	--	--	--	--	--	--	--	--
03/16/82	1000	--	--	--	--	--	--	--	--	--	--
04/02/82	1200	--	--	--	--	--	--	--	--	--	--
04/13/82	0915	--	--	--	--	--	--	--	--	--	--
04/20/82	1200	--	--	--	--	--	--	--	--	--	--
04/27/82	1220	--	--	--	--	--	--	--	--	--	--
05/04/82	1145	--	--	--	--	--	--	--	--	--	--
05/13/82	1115	--	--	--	--	--	--	--	--	--	--
05/26/82	1130	--	--	--	--	--	--	--	--	--	--
06/04/82	1145	--	--	--	--	--	--	--	--	--	--
06/15/82	1100	1.3	6.0	55	12	0.20	--	0.60	44.0	9.4	<1
06/22/82	1130	--	--	--	--	--	--	--	--	--	--
07/01/82	1225	--	--	--	--	--	--	--	--	--	--
07/08/82	1215	--	--	--	--	--	--	--	--	--	--
07/17/82	0810	--	--	--	--	--	--	--	--	--	--
07/27/82	1100	--	--	--	--	--	--	--	--	--	--
08/05/82	1145	--	--	--	--	--	--	--	--	--	--
08/12/82	1015	--	--	--	--	--	--	--	--	--	--
08/19/82	0945	--	--	--	--	--	--	--	--	--	--
09/01/82	1000	--	--	--	--	--	--	--	--	--	--
09/20/82	1100	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	AMMONIA DISS (AS N) (MG/L)	NITRITE DISS (AS N) (MG/L)	NITRATE DISS (AS N) (MG/L)	NITRITE PLUS NITRATE DISS (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/L)	AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/L)	NITRO-GEN, ORGANIC DISS (AS N) (MG/L)	NITRO-GEN DISS (AS N) (MG/L)	PHOS-PHORUS, ORTHO DISS (AS P) (MG/L)
10/01/81	1030	--	--	--	--	--	--	--	--	--	--
10/21/81	1130	--	--	--	--	--	--	--	--	--	--
11/09/81	1130	--	--	--	--	--	--	--	--	--	--
12/01/81	1050	--	--	--	--	--	--	--	--	--	--
12/16/81	1020	--	--	--	--	--	--	--	--	--	--
01/04/82	1045	--	--	--	--	--	--	--	--	--	--
01/21/82	1245	--	--	--	--	--	--	--	--	--	--
01/28/82	0930	0.200	--	--	0.18	--	--	0.47	--	--	0.040
02/08/82	1000	--	--	--	--	--	--	--	--	--	--
03/05/82	1030	--	--	--	--	--	--	--	--	--	--
03/16/82	1000	--	--	--	--	--	--	--	--	--	--
04/02/82	1200	--	--	--	--	--	--	--	--	--	--
04/13/82	0915	--	--	--	--	--	--	--	--	--	--
04/20/82	1200	--	--	--	--	--	--	--	--	--	--
04/27/82	1220	--	--	--	--	--	--	--	--	--	--
05/04/82	1145	--	--	--	--	--	--	--	--	--	--
05/13/82	1115	--	--	--	--	--	--	--	--	--	--
05/26/82	1130	--	--	--	--	--	--	--	--	--	--
06/04/82	1145	--	--	--	--	--	--	--	--	--	--
06/15/82	1100	0.100	<0.020	--	0.10	1.0	0.00	0.90	0.90	1.1	0.020
06/22/82	1130	--	--	--	--	--	--	--	--	--	--
07/01/82	1225	--	--	--	--	--	--	--	--	--	--
07/08/82	1215	--	--	--	--	--	--	--	--	--	--
07/17/82	0810	--	--	--	--	--	--	--	--	--	--
07/27/82	1100	--	--	--	--	--	--	--	--	--	--
08/05/82	1145	--	--	--	--	--	--	--	--	--	--
08/12/82	1015	--	--	--	--	--	--	--	--	--	--
08/19/82	0945	--	--	--	--	--	--	--	--	--	--
09/01/82	1000	--	--	--	--	--	--	--	--	--	--
09/20/82	1100	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	PHOS-PHORUS DISS. (AS P) (MG/L)	PHOS-PHORUS, TOTAL (AS P) (MG/L)	ALUM-INUM DISS (UG/L)	ARSENIC DISS (UG/L)	BARIUM DISS (UG/L)	BERYL-LIUM DIS-OLVED (UG/L)	BORON DISS (UG/L)	CADMIUM DISS (UG/L)	CHRO-MIUM DISS (UG/L)	COBALT DISS (UG/L)
10/01/81	1030	--	--	--	--	--	--	--	--	--	--
10/21/81	1130	--	--	--	--	--	--	--	--	--	--
11/09/81	1130	--	--	--	--	--	--	--	--	--	--
12/01/81	1050	--	--	--	--	--	--	--	--	--	--
12/16/81	1020	--	--	--	--	--	--	--	--	--	--
01/04/82	1045	--	--	--	--	--	--	--	--	--	--
01/21/82	1245	--	--	--	--	--	--	--	--	--	--
01/28/82	0930	--	0.040	20	1	46	--	40	<1	<10	--
02/08/82	1000	--	--	--	--	--	--	--	--	--	--
03/05/82	1030	--	--	--	--	--	--	--	--	--	--
03/16/82	1000	--	--	--	--	--	--	--	--	--	--
04/02/82	1200	--	--	--	--	--	--	--	--	--	--
04/13/82	0915	--	--	--	--	--	--	--	--	--	--
04/20/82	1200	--	--	--	--	--	--	--	--	--	--
04/27/82	1220	--	--	--	--	--	--	--	--	--	--
05/04/82	1145	--	--	--	--	--	--	--	--	--	--
05/13/82	1115	--	--	--	--	--	--	--	--	--	--
05/26/82	1130	--	--	--	--	--	--	--	--	--	--
06/04/82	1145	--	--	--	--	--	--	--	--	--	--
06/15/82	1100	0.070	0.270	40	1	38	<1	20	<1	<10	--
06/22/82	1130	--	--	--	--	--	--	--	--	--	--
07/01/82	1225	--	--	--	--	--	--	--	--	--	--
07/08/82	1215	--	--	--	--	--	--	--	--	--	--
07/17/82	0810	--	--	--	--	--	--	--	--	--	--
07/27/82	1100	--	--	--	--	--	--	--	--	--	--
08/05/82	1145	--	--	--	--	--	--	--	--	--	--
08/12/82	1015	--	--	--	--	--	--	--	--	--	--
08/19/82	0945	--	--	--	--	--	--	--	--	--	--
09/01/82	1000	--	--	--	--	--	--	--	--	--	--
09/20/82	1100	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	COPPER DISS (UG/L)	CYANIDE TOTAL (MG/L AS CN)	IRON DISS (UG/L)	LEAD DISS (UG/L)	LITHIUM DISS (UG/L)	MAN-GANESE DISS (UG/L)	MERCURY DISS (UG/L)	MOLYB-DENUM DISS (UG/L)	NICKEL DISS (UG/L)	PHENOLS (UG/L)
10/01/81	1030	--	--	--	--	--	--	--	--	--	--
10/21/81	1130	--	--	--	--	--	--	--	--	--	--
11/09/81	1130	--	--	--	--	--	--	--	--	--	--
12/01/81	1050	--	--	--	--	--	--	--	--	--	--
12/16/81	1020	--	--	--	--	--	--	--	--	--	--
01/04/82	1045	--	--	--	--	--	--	--	--	--	--
01/21/82	1245	--	--	--	--	--	--	--	--	--	--
01/28/82	0930	7	--	<10	2	19	3	<0.10	<10	--	0
02/08/82	1000	--	--	--	--	--	--	--	--	--	--
03/05/82	1030	--	--	--	--	--	--	--	--	--	--
03/16/82	1000	--	--	--	--	--	--	--	--	--	--
04/02/82	1200	--	--	--	--	--	--	--	--	--	--
04/13/82	0915	--	--	--	--	--	--	--	--	--	--
04/20/82	1200	--	--	--	--	--	--	--	--	--	--
04/27/82	1220	--	--	--	--	--	--	--	--	--	--
05/04/82	1145	--	--	--	--	--	--	--	--	--	--
05/13/82	1115	--	--	--	--	--	--	--	--	--	--
05/26/82	1130	--	--	--	--	--	--	--	--	--	--
06/04/82	1145	--	--	--	--	--	--	--	--	--	--
06/15/82	1100	8	<0.01	40	<1	11	<1	<0.10	2	1	5
06/22/82	1130	--	--	--	--	--	--	--	--	--	--
07/01/82	1225	--	--	--	--	--	--	--	--	--	--
07/08/82	1215	--	--	--	--	--	--	--	--	--	--
07/17/82	0810	--	--	--	--	--	--	--	--	--	--
07/27/82	1100	--	--	--	--	--	--	--	--	--	--
08/05/82	1145	--	--	--	--	--	--	--	--	--	--
08/12/82	1015	--	--	--	--	--	--	--	--	--	--
08/19/82	0945	--	--	--	--	--	--	--	--	--	--
09/01/82	1000	--	--	--	--	--	--	--	--	--	--
09/20/82	1100	--	--	--	--	--	--	--	--	--	--

WHITE RIVER BLW ASPHALT WASH NR WATSON, UT (STA. NO. 09306700) CONTINUED...
WATER QUALITY DATA OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SELE-NIUM DISS (UG/L)	SILVER DISS (UG/L)	STRON-TIUM DISS (UG/L)	VANA-DIUM DISS (UG/L)	ZINC DISS (UG/L)
10/01/81	1030	--	--	--	--	--
10/21/81	1130	--	--	--	--	--
11/09/81	1130	--	--	--	--	--
12/01/81	1050	--	--	--	--	--
12/16/81	1020	--	--	--	--	--
01/04/82	1045	--	--	--	--	--
01/21/82	1245	--	--	--	--	--
01/28/82	0930	1	--	920	1.0	0
02/08/82	1000	--	--	--	--	--
03/05/82	1030	--	--	--	--	--
03/16/82	1000	--	--	--	--	--
04/02/82	1200	--	--	--	--	--
04/13/82	0915	--	--	--	--	--
04/20/82	1200	--	--	--	--	--
04/27/82	1220	--	--	--	--	--
05/04/82	1145	--	--	--	--	--
05/13/82	1115	--	--	--	--	--
05/26/82	1130	--	--	--	--	--
06/04/82	1145	--	--	--	--	--
06/15/82	1100	1	1	330	2.2	6
06/22/82	1130	--	--	--	--	--
07/01/82	1225	--	--	--	--	--
07/08/82	1215	--	--	--	--	--
07/17/82	0810	--	--	--	--	--
07/27/82	1100	--	--	--	--	--
08/05/82	1145	--	--	--	--	--
08/12/82	1015	--	--	--	--	--
08/19/82	0945	--	--	--	--	--
09/01/82	1000	--	--	--	--	--
09/20/82	1100	--	--	--	--	--

White River at Mouth near Ouray
(Sta. No. 09306900)

- Discharge Measurement
  Summary Sheet

FORM 9-207
(Rev. 11-69)

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)
DISCHARGE MEASUREMENT SUMMARY SHEET

Station No. 09306900

Discharge measurements of WHITE RIVER AT MOUTH NR OURAY, during the year ending Sept. 30, 19.8

No.	Date 1980--1981	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating #5 Shift adj.	Rating #5 Percent diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	Temp water air	Temp time	SPEC COND	PZF	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr						
121	Sept. 15	Andersen	109	189	1.94	4.00	366	-.29	0	.6 .2,.8	30	0	.75	G	22.2 / 27.7	1445	895		
122	1981--1982 Oct. 2	D.M. Batty	119	154	1.73	3.70	267	-.25	-0.4	.6	27	0	.50	G	15.5 / —	1040	840		Control clear Removed Record
123	Oct. 6	"	113	508	2.50	5.03	1270	+.14	0	.6 .2,.8	29	-.03	1.33	G	11.5 / —	1150			Control clear
124	Oct. 12	Andersen	115	717	3.32	5.93	2,380	+.49	0	.6 .2,.8	24	-.03	1.08	G-F	9.6 / 11.0	1630	990		
125	Oct. 30	B.A. Sether	132	216	2.02	3.81	436	+.06	+0.5	.6 .2,.8	27	+.04	.75	F-P	8.5 / 5.5	1040 / 1040	780		Control clear
126	Nov. 17	Andersen (M) R.W. Cruff (N)	104	215	1.83	3.82	394	-.05	0	.6 .2,.8	27	+.04 -.02	.58	G	5.5 / 4.9	1045	820		
	Nov. 30	D.M. Batty B.A. Sether				3.77									0.0 / -3.0	1108 / 1108	660		Ice on sand bars River full of slush i[illegible] probably backwat[illegible]
127	Jan. 13	D.M. Batty (M) B.A. Sether (N)	85	93.2	1.21	3.80	113	ice	—	.6	22	+.05	.66	F	0.0 / -1.0	1100 / 1502	1090		100% ice cover on control- backwater
128	Mar. 5	D.M. Batty	110	363	2.64	4.45	960	+.32	+0.1	.6 .2,.8	24	+.05	1.0	G	3.0 / 4.0	1745 / 1745			Control clear
129	Mar. 24	D.M. Batty (N) B.A. Sether (M)	133	212	1.75	3.59	372	+.13	+0.3	.6	27	+.03	.58	G	5.5 / 6.5	0845 / 1015		970	Control clear
130	Apr. 12	G.C. Andersen (N) D.M. Batty (M)	133	203	1.92	3.73	390	+.03	+0.2	.6	27	0	.42	E-G	10.3 / 20.0	0900 / 1040	970		Control clear
131	Apr. 27	Andersen	113	307	2.35	4.58	722	-.18	+0.3	.6 .2,.8	24	0	.75	G	12.3 / 9.0	1030 / 0820	700		Control clear
132	May 12	B.A. Sether	110	470	3.11	5.68	1460	-.29	0	.2,.8	26	0	1.08	G	12.5 / 20.0	1450 / 1453	425		Control clear
133	May 27	D.M. Batty	115	510	4.00	6.04	2040	0	0	.2,.8	24	+.01	1.25	G	16.0 / 28.0	1150 / 1210	385		Control clear
134	June 11	G. Andersen	114	616	3.44	6.35	2,120	-.22	0	2-8	24	-.03	1.0	G	15.0 / 21.0	0930 / 1035	375		Shifting sand control.
135	25	D. Batty	115	562	3.49	6.43	1,960	-.47	0	2-8	22	-.01	1.08	G	18.0 / 25.0	1140 / 1200	360		Channel - sand appears clear
136	July 8	do	114	534	2.74	6.07	1,470	-.67	0	2-8	26	-.01	1.0	G	19.5 / 28.0	1120 / 1115	395		do

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FORM 9-207
(Rev. 11-69)

UNITED STATES DEPARTMENT OF THE INTERIOR

Sheet 2 of 2

Station No. 09306900

GEOLOGICAL SURVEY (WATER RESOURCES DIVISION)
DISCHARGE MEASUREMENT SUMMARY SHEET

Discharge measurements of WHITE RIVER AT MOUTH NR OURAY, during the year ending Sept. 30, 19*@

No	Date	Made by—	Width	Area	Mean velocity	Gage height	Discharge	Rating #5 Shift adj.	Rating #5 % diff.	Method	Number meas. sections	Gage height change	Time	Meas. rated	Temperature WATER / AIR	Time of temperature	Sp. con.	PZF	REMARKS
			Feet	Sq ft	Fps	Feet	Cfs	Feet				Feet	Hr		°C				
CONTINUATION OF 1981 - 1982 WY																			
137	07-22	Batty	113	331	2.16	4.86	715	-.47	+0.1	.6 2.8	27	+.01	1.0		24.5 / X	1130	490		Sand channel clear
138	08-06	Seiher (m) Batty (G)	141	300	2.04	4.76	611	-.54	-0.2	.6 2.8	27	0	.67	G	23.2 / 26.5	1000 / 1410	575		
139	Aug 25	D.M. Batty	135	272	1.72	3.94 4.42	469	-.48	-0.4	22.8 .6	29	0	.67	G	21.6 / 31.0	0800 / 1130	895		Control clear - removed record - No flows
140	Sept. 15	11	107	314	3.10	4.19 5.10	973	-.31	0		25	-0.5	1.17	G	12.0 / 18.0	0950 / 0945	750		Control clear - removed record -
141	Oct. 07	1982-83 D.M. Batty	132	282	2.16	4.21 4.57	608	-.36	+0.3	.6 2.8	28	-.01	0.75	G	9.5 / 15.0	1050 / 1300	700		Control clear - removed record

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Surface Water Statistical Summaries: Water Quality

- White River near Colorado-Utah State Line (Sta. No. 09306395): Summary of Water Quality Data, 1976-1981

- Evacuation Creek near Mouth, near Watson, Utah (Sta. No. 09306430): Summary of Water Quality Data, 1973-1981

- White River below Asphalt Wash (Sta. No. 09306700): Summary of Water Quality Data, 1973-1981

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER NR COLORADO STATE LINE 09306395
1976 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
WATER TEMPERATURE (DEG C)	104	0	0.0	26.0	12.57	8.15
SPECIFIC CONDUCTANCE FIELD (UMHOS)	52	0	290	1420	762.5	210.1
PH FIELD (UNITS)	42	0	6.4	8.8	7.98	0.41
DISSOLVED OXYGEN (MG/L)	34	0	6.2	13.3	8.59	1.76
SEDIMENT, SUSPENDED (MG/L)	61	0	36	23200	1823.2	3466.1
SUSP SEDIMENT DISCHARGE (T/DAY)	55	0	21	40300	6975.99	11300.04
COLOR (PCU)	9	0	4	23	8.8	5.8
TURBIDITY (NTU)	1	0	9.2	9.2	9.20	---
TURBIDITY, (JTU)	9	0	15	150	59.9	41.0
SUSPENDED SOLIDS, RESIDUE @ 105 C (MG/L)	5	0	26	380	145.4	136.2
TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	11	0	242	948	511.6	187.0
ALKALINITY, FIELD (MG/L AS CACO3)	26	0	110	260	173.5	33.5
HARDNESS TOTAL (AS CACO3) (MG/L)	35	0	140	450	270.0	62.8
HARDNESS, NONCAR. (AS CACO3) (MG/L)	27	0	14	180	93.7	38.2
CALCIUM DISS (MG/L)	35	0	38	95	65.80	12.95
MAGNESIUM DISS (MG/L)	35	0	12	50	25.54	7.57
SODIUM DISS (MG/L)	35	0	19	150	59.83	25.68
SODIUM ADSORPTION RATIO (SAR)	35	0	0.70	3.1	1.56	0.52
PERCENT SODIUM	35	0	19	47	31.5	5.8
POTASSIUM DISS (MG/L)	35	0	1.2	4.9	2.12	0.75
CHLORIDE DISS (MG/L)	35	0	7.3	88	34.75	16.05
SULFATE DISS (MG/L)	35	0	57	360	170.77	61.93
SILICA DISS (MG/L)	35	0	10	17	13.20	1.78
FLUORIDE DISS (MG/L)	35	0	0.10	0.50	0.27	0.09
BROMIDE DISS (MG/L)	8	0	0.00	0.20	0.09	0.06
SULFIDE TOTAL (MG/L AS S)	4	0	0.00	0.10	0.05	0.06
SULFIDE DISS (MG/L AS S)	2	0	0.60	0.70	0.65	0.07
OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	4	0	16.0	43.0	30.75	12.89
DISSOLVED ORGANIC CARBON (DOC) (MG/L)	6	0	3.0	7.4	4.82	1.46
OIL AND GREASE, TOTAL (MG/L)	0	0	---	---	---	---

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER NR COLORADO STATE LINE 09306395
1976 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG	1	0	0	0	0.0	---
AMMONIA DISS (AS N) (MG/L)	13	4	0.010	0.130	0.0315	0.0346
NITRITE DISS (AS N) (MG/L)	10	7	<0.010	0.010	0.0100	0.0000
NITRATE DISS (AS N) (MG/L)	10	0	0.01	0.22	0.05	0.07
NITRITE PLUS NITRATE DISS (AS N) (MG/L)	33	0	0.00	0.73	0.10	0.15
AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/	2	0	0.40	0.68	0.54	0.20
AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/	1	0	0.01	0.01	0.01	---
AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/	10	0	0.32	1.1	0.57	0.24
NITROGEN, ORGANIC DISS (AS N) (MG/L)	2	0	0.40	0.62	0.51	0.16
NITROGEN DISS (AS N) (MG/L)	2	0	0.44	0.70	0.57	0.18
PHOSPHORUS, ORTHO DISS (AS P) (MG/L)	20	3	0.000	0.090	0.0225	0.0271
PHOSPHORUS DISS. (AS P) (MG/L)	16	0	0.000	0.040	0.0156	0.0089
PHOSPHORUS, TOTAL (AS P) (MG/L)	12	0	0.010	0.360	0.1183	0.1029
ALUMINUM DISS (UG/L)	17	2	0	100	33.5	34.3
ANTIMONY, DISS. (UG/L)	0	0	---	---	---	---
ARSENIC DISS (UG/L)	12	1	<1	2	1.3	0.5
BARIUM DISS (UG/L)	8	7	59	<100	94.9	14.5
BERYLLIUM DISOLVED (UG/L)	1	1	<1	<1	<1.0	---
BORON DISS (UG/L)	34	0	20	140	63.5	22.8
CADMIUM DISS (UG/L)	13	5	0	2	0.9	0.8
CHROMIUM DISS (UG/L)	13	0	0	20	2.7	6.0
COBALT DISS (UG/L)	1	0	0	0	0.0	---
COPPER DISS (UG/L)	13	2	<2	10	3.8	2.4
CYANIDE TOTAL (MG/L AS CN)	1	0	0.00	0.00	0.00	---
IRON DISS (UG/L)	22	7	<10	120	35.0	30.4
LEAD DISS (UG/L)	13	0	0	17	3.0	4.9
LITHIUM DISS (UG/L)	13	3	4	30	15.2	8.9
MANGANESE DISS (UG/L)	23	8	2	30	9.5	8.2
MERCURY DISS (UG/L)	13	7	0.00	<0.50	0.12	0.18
MOLYBDENUM DISS (UG/L)	8	3	1	<10	3.4	4.1

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER NR COLORADO STATE LINE 09306395
1976 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
NICKEL DISS (UG/L)	1	0	4	4	4.0	---
PHENOLS (UG/L)	8	0	0	8	2.0	2.6
SELENIUM DISS (UG/L)	13	0	1	1	1.0	0.0
SILVER DISS (UG/L)	1	0	0	0	0.0	---
STRONTIUM DISS (UG/L)	13	0	370	1400	838.5	295.2
VANADIUM DISS (UG/L)	9	0	0.00	2.0	1.27	0.79
ZINC DISS (UG/L)	13	9	<3	30	14.8	9.1

WATER QUALITY DATA SUMMARY(A,B)
EVACUATION CREEK 09306430
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
WATER TEMPERATURE (DEG C)	220	0	0.0	33.5	14.11	8.58
SPECIFIC CONDUCTANCE FIELD (UMHOS)	189	0	650	5800	3901.5	1026.7
PH FIELD (UNITS)	123	0	7.0	9.8	8.10	0.47
DISSOLVED OXYGEN (MG/L)	112	0	4.6	14.5	7.91	1.85
SEDIMENT, SUSPENDED (MG/L)	194	0	3	658000	17969.3	71084.2
SUSP SEDIMENT DISCHARGE (T/DAY)	57	11	<0.01	19000	6304.17	32146.23
COLOR (PCU)	32	0	3	50	10.0	8.2
TURBIDITY (NTU)	0	0	---	---	---	---
TURBIDITY, (JTU)	39	0	0	33000	1106.7	5282.3
SUSPENDED SOLIDS, RESIDUE @ 105 C (MG/L)	4	1	<1	16	6.5	6.6
TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	45	0	2150	4140	3627.3	446.3
ALKALINITY, FIELD (MG/L AS CACO3)	60	0	98	460	372.3	79.6
HARDNESS TOTAL (AS CACO3) (MG/L)	62	0	250	1200	1040.2	211.2
HARDNESS, NONCAR. (AS CACO3) (MG/L)	60	0	130	920	656.5	153.9
CALCIUM DISS (MG/L)	62	0	60	240	162.85	31.05
MAGNESIUM DISS (MG/L)	62	0	24	210	151.81	37.15
SODIUM DISS (MG/L)	62	0	160	990	677.58	162.70
SODIUM ADSORPTION RATIO (SAR)	62	0	4.3	12	9.06	1.54
PERCENT SODIUM	62	0	42	63	58.3	3.2
POTASSIUM DISS (MG/L)	62	0	1.8	12	8.30	1.75
CHLORIDE DISS (MG/L)	62	0	6.1	83	45.94	15.69
SULFATE DISS (MG/L)	62	0	430	3000	2015.32	472.98
SILICA DISS (MG/L)	62	0	6.1	16	9.91	2.04
FLUORIDE DISS (MG/L)	62	0	0.40	2.3	0.82	0.25
BROMIDE DISS (MG/L)	41	0	0.10	0.60	0.30	0.11
SULFIDE TOTAL (MG/L AS S)	7	0	0.00	0.80	0.21	0.32
SULFIDE DISS (MG/L AS S)	34	0	0.00	2.0	0.18	0.41
OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	33	0	6.0	2600.0	103.39	416.41
DISSOLVED ORGANIC CARBON (DOC) (MG/L)	17	0	6.2	35	14.30	6.66
OIL AND GREASE, TOTAL (MG/L)	30	0	0	250	9.7	45.4

WATER QUALITY DATA SUMMARY(A,B)
EVACUATION CREEK 09306430
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG	1	0	0	0	0.0	---
AMMONIA DISS (AS N) (MG/L)	51	9	0.000	0.150	0.0420	0.0408
NITRITE DISS (AS N) (MG/L)	46	13	0.009	0.110	0.0198	0.0208
NITRATE DISS (AS N) (MG/L)	45	0	0.00	1.8	0.54	0.59
NITRITE PLUS NITRATE DISS (AS N) (MG/L)	59	3	0.01	2.9	0.64	0.63
AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/	1	0	0.63	0.63	0.63	---
AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/	0	0	---	---	---	---
AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/	50	0	0.16	30	1.54	4.20
NITROGEN, ORGANIC DISS (AS N) (MG/L)	1	0	0.49	0.49	0.49	---
NITROGEN DISS (AS N) (MG/L)	1	0	1.5	1.5	1.50	---
PHOSPHORUS, ORTHO DISS (AS P) (MG/L)	59	19	0.000	0.060	0.0141	0.0098
PHOSPHORUS DISS. (AS P) (MG/L)	3	0	0.010	0.010	0.0100	0.0000
PHOSPHORUS, TOTAL (AS P) (MG/L)	51	10	0.010	33.000	0.7802	4.6189
ALUMINUM DISS (UG/L)	41	10	0	110	42.9	39.8
ANTIMONY, DISS. (UG/L)	0	0	---	---	---	---
ARSENIC DISS (UG/L)	36	4	<1	6	1.8	1.0
BARIUM DISS (UG/L)	29	23	0	300	102.4	56.3
BERYLLIUM DISOLVED (UG/L)	11	6	0	10	8.7	3.1
BORON DISS (UG/L)	50	1	<20	8600	1769.2	1197.9
CADMIUM DISS (UG/L)	32	2	0	<2	0.1	0.5
CHROMIUM DISS (UG/L)	32	6	0	30	7.3	9.8
COBALT DISS (UG/L)	21	8	0	<60	5.5	14.6
COPPER DISS (UG/L)	33	2	0	600	29.0	106.1
CYANIDE TOTAL (MG/L AS CN)	25	0	0.00	0.01	0.00	0.00
IRON DISS (UG/L)	49	6	<10	470	54.7	72.9
LEAD DISS (UG/L)	32	6	0	4	1.4	1.2
LITHIUM DISS (UG/L)	34	1	<10	170	114.7	33.3
MANGANESE DISS (UG/L)	49	1	<10	320	107.6	78.6
MERCURY DISS (UG/L)	32	27	0.00	<0.50	0.35	0.22
MOLYBDENUM DISS (UG/L)	30	1	<1	70	40.4	15.1

WATER QUALITY DATA SUMMARY(A,B)
EVACUATION CREEK 09306430
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
NICKEL DISS (UG/L)	22	1	0	9	4.5	2.5
PHENOLS (UG/L)	44	0	0	25	3.2	4.1
SELENIUM DISS (UG/L)	31	8	0	5	1.9	1.2
SILVER DISS (UG/L)	10	4	0	<6	1.5	2.3
STRONTIUM DISS (UG/L)	26	0	3000	4300	3819.2	306.0
VANADIUM DISS (UG/L)	30	0	0.00	3.2	0.95	0.93
ZINC DISS (UG/L)	32	10	0	110	28.8	20.1

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER BLW ASPHALT WASH (09306700)
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
WATER TEMPERATURE (DEG C)	377	0	0.0	27.1	12.76	7.94
SPECIFIC CONDUCTANCE FIELD (UMHOS)	317	0	250	2358	696.1	227.6
PH FIELD (UNITS)	179	0	6.0	9.4	7.88	0.71
DISSOLVED OXYGEN (MG/L)	147	0	3.5	12.2	8.19	1.75
SEDIMENT, SUSPENDED (MG/L)	357	0	46	28500	1490.0	2648.1
SUSP SEDIMENT DISCHARGE (T/DAY)	341	0	6.8	69510	4874.59	9676.03
COLOR (PCU)	33	0	0	200	19.0	34.1
TURBIDITY, (JTU)	40	0	6	2000	183.3	340.4
TURBIDITY (NTU)	0	0	---	---	---	---
SUSPENDED SOLIDS, RESIDUE @ 105 C (MG/L)	5	0	20	2700	810.4	1107.2
TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	46	0	223	892	509.6	136.1
ALKALINITY, FIELD (MG/L AS CACO3)	46	0	103	230	185.9	32.5
HARDNESS TOTAL (AS CACO3) (MG/L)	46	0	140	400	275.4	55.6
HARDNESS, NONCAR. (AS CACO3) (MG/L)	46	0	31	170	88.9	26.7
CALCIUM DISS (MG/L)	46	0	36	83	67.24	12.01
MAGNESIUM DISS (MG/L)	46	0	11	48	25.96	6.94
SODIUM DISS (MG/L)	46	0	22	180	65.80	28.22
SODIUM ADSORPTION RATIO (SAR)	46	0	0.70	4.4	1.70	0.61
PERCENT SODIUM	46	0	18	54	32.8	5.8
POTASSIUM DISS (MG/L)	46	0	1.1	6.1	2.32	0.99
CHLORIDE DISS (MG/L)	46	0	9.3	230	40.43	31.67
SULFATE DISS (MG/L)	46	0	63	340	170.72	51.85
SILICA DISS (MG/L)	46	0	7.1	17	13.00	1.91
FLUORIDE DISS (MG/L)	46	0	0.10	2.0	0.36	0.33
BROMIDE DISS (MG/L)	40	0	0.00	0.93	0.12	0.18
SULFIDE TOTAL (MG/L AS S)	5	0	0.00	0.30	0.20	0.12
SULFIDE DISS (MG/L AS S)	34	0	0.00	1.3	0.12	0.23
OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	34	0	1.0	48.0	16.03	11.36
DISSOLVED ORGANIC CARBON (DOC) (MG/L)	14	0	2.0	13	5.41	2.87
OIL AND GREASE, TOTAL (MG/L)	32	0	0	7	1.7	2.1

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER (09306700) STATISTICAL SUMMARY
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG	0	0	---	---	---	---
AMMONIA DISS (AS N) (MG/L)	45	12	0.010	0.150	0.0342	0.0351
NITRITE DISS (AS N) (MG/L)	46	25	0.009	0.030	0.0106	0.0033
NITRATE DISS (AS N) (MG/L)	45	0	0.00	0.52	0.12	0.13
NITRITE PLUS NITRATE DISS (AS N) (MG/L)	46	5	0.01	0.54	0.13	0.12
AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/	0	0	---	---	---	---
AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/	0	0	---	---	---	---
AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/	45	0	0.04	3.8	0.71	0.77
NITROGEN, ORGANIC DISS (AS N) (MG/L)	0	0	---	---	---	---
NITROGEN DISS (AS N) (MG/L)	0	0	---	---	---	---
PHOSPHORUS, ORTHO DISS (AS P) (MG/L)	46	14	0.010	0.040	0.0152	0.0096
PHOSPHORUS DISS. (AS P) (MG/L)	0	0	---	---	---	---
PHOSPHORUS, TOTAL (AS P) (MG/L)	46	2	<0.010	5.500	0.2609	0.8018
ALUMINUM DISS (UG/L)	36	8	0	460	54.7	79.7
ANTIMONY, DISS. (UG/L)	0	0	---	---	---	---
ARSENIC DISS (UG/L)	32	8	<1	4	1.4	0.8
BARIUM DISS (UG/L)	28	21	50	300	104.3	47.5
BERYLLIUM DISOLVED (UG/L)	11	10	<1	20	9.5	4.6
BORON DISS (UG/L)	34	2	<20	190	74.4	31.1
CADMIUM DISS (UG/L)	28	6	0	2	0.5	0.9
CHROMIUM DISS (UG/L)	28	6	0	<20	4.9	8.4
COBALT DISS (UG/L)	21	7	0	<11	1.9	3.6
COPPER DISS (UG/L)	28	3	2	340	30.2	70.8
CYANIDE TOTAL (MG/L AS CN)	24	0	0.00	0.01	0.00	0.00
IRON DISS (UG/L)	34	8	<10	3500	135.9	595.6
LEAD DISS (UG/L)	28	8	0	48	2.9	9.0
LITHIUM DISS (UG/L)	32	18	8	110	16.4	18.1
MANGANESE DISS (UG/L)	34	30	4	20	10.3	2.8
MERCURY DISS (UG/L)	28	26	0.00	1.1	0.45	0.21
MOLYBDENUM DISS (UG/L)	28	4	1	<10	3.0	2.2

WATER QUALITY DATA SUMMARY(A,B)
WHITE RIVER (09306700) STATISTICAL SUMMARY
1973 - 1981

PARAMETER	NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
NICKEL DISS (UG/L)	21	3	0	16	4.0	3.9
PHENOLS (UG/L)	43	0	0	14	3.1	2.6
SELENIUM DISS (UG/L)	27	3	1	3	1.2	0.5
SILVER DISS (UG/L)	11	4	0	<2	0.7	1.0
STRONTIUM DISS (UG/L)	26	0	60	1300	845.0	275.3
VANADIUM DISS (UG/L)	28	0	0.00	13	1.85	2.35
ZINC DISS (UG/L)	28	9	0	420	48.7	101.1

Surface Water Statistical Summaries: Sediment Discharge

A. Multi-Year Plots
- Southam Canyon Wash (Sta. No. 09306610): 1976-1982 Water Years

- Southam Canyon Wash (Sta. No. 09306610): 1976-1982 Water Years - Excluding Discharge Values Less Than 1 cfs

SOUTHAM CANYON WASH SEDIMENT LOAD VERSUS DISCHARGE- 1974-1982
***STATION SORT OPTION NOT REQUESTED

Southam Canyon Wash
(Sta. No. 09306610)

Linear Regression of Suspended
Sediment (Y) and Discharge (X)
1976-1982 Water Years
(N=11)

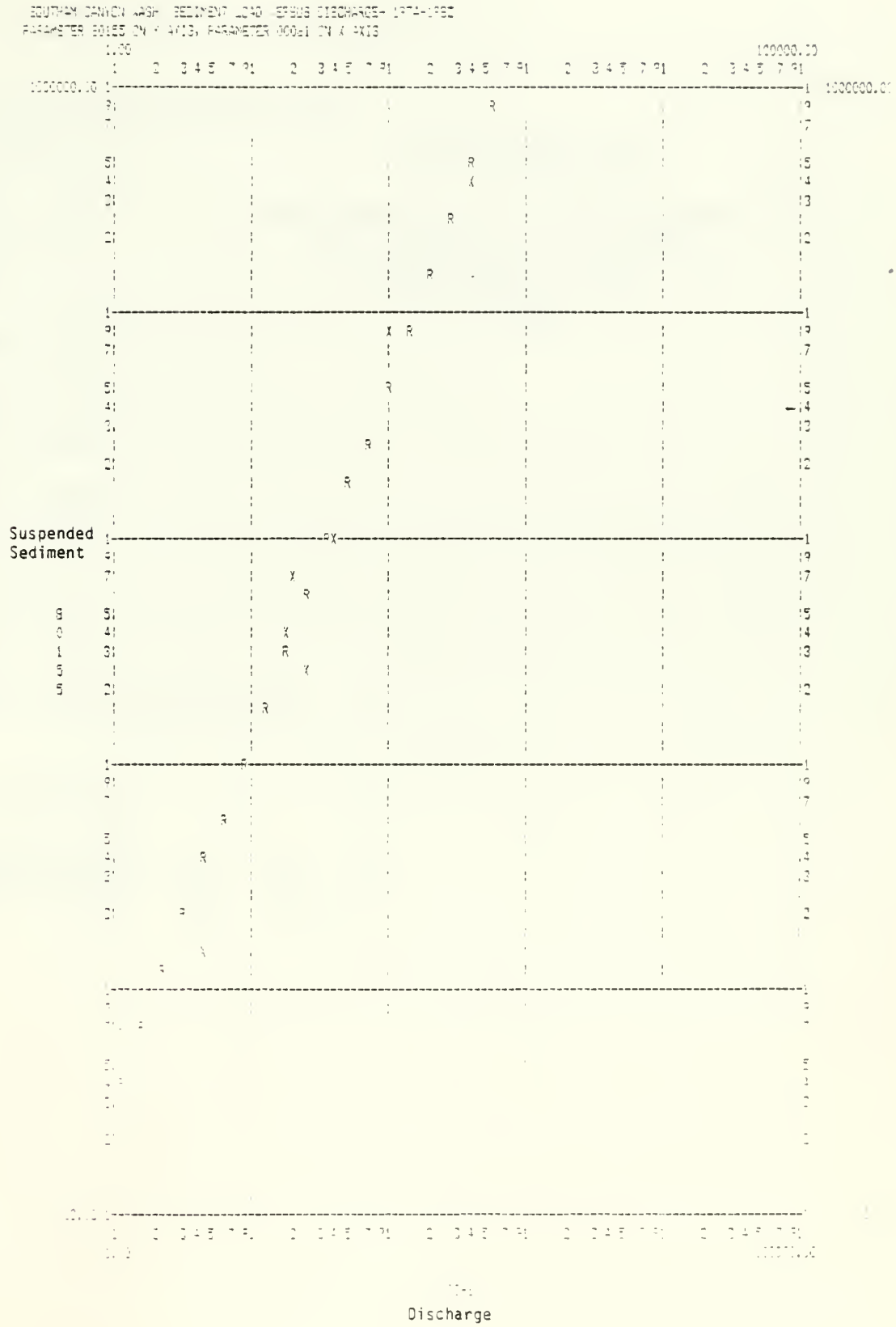
SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306610		
1976/ 2/10--1645	135.00	4.70
***000000009306610		
1976/ 2/12--1530	4.90	0.20
***000000009306610		
1976/ 6/22--1230	7182.00	20.00
***000000009306610		
1976/ 6/22--1250	4062.00	17.30
***000000009306610		
1979/ 3/28--1300	98.77	0.91
***000000009306610		
1979/ 3/29--1345	2.99	0.33
***000000009306610		
1979/ 9/26--1800	411717.00	392.00
***000000009306610		
1980/ 2/19--1420	2836.35	25.00
***000000009306610		
1980/ 8/25--1545	9297.00	39.00
***000000009306610		
1982/ 8/ 2--1810	73870.00	107.00
***000000009306610		
1982/ 9/29--1015	70.69	1.10

NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 11

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN Y	MEAN X	N
1.2179	1.3342	0.99	0.3126	0.3777	2.9321	11

***LOG-LOG PLOT REQUESTED



EXPLANATION OF PLOT

- SYMBOL FOR A SINGLE Y-X PLOT PT.=X
  SYMBOL FOR LEAST SQ.REGRESSION LN=R

SOUTHAM CANYON WASH SEDIMENT LOAD VERSUS DISCHARGE- 1974-1982

***STATION SORT OPTION NOT REQUESTED

Southam Canyon Wash
(Sta. No. 09306610)

Linear Regression of Suspended Sediment (Y)
Vs. Discharge (X) - Excluding
Discharge Values Less Than 1 CFS
1976-1982 Water Years
(N=8)

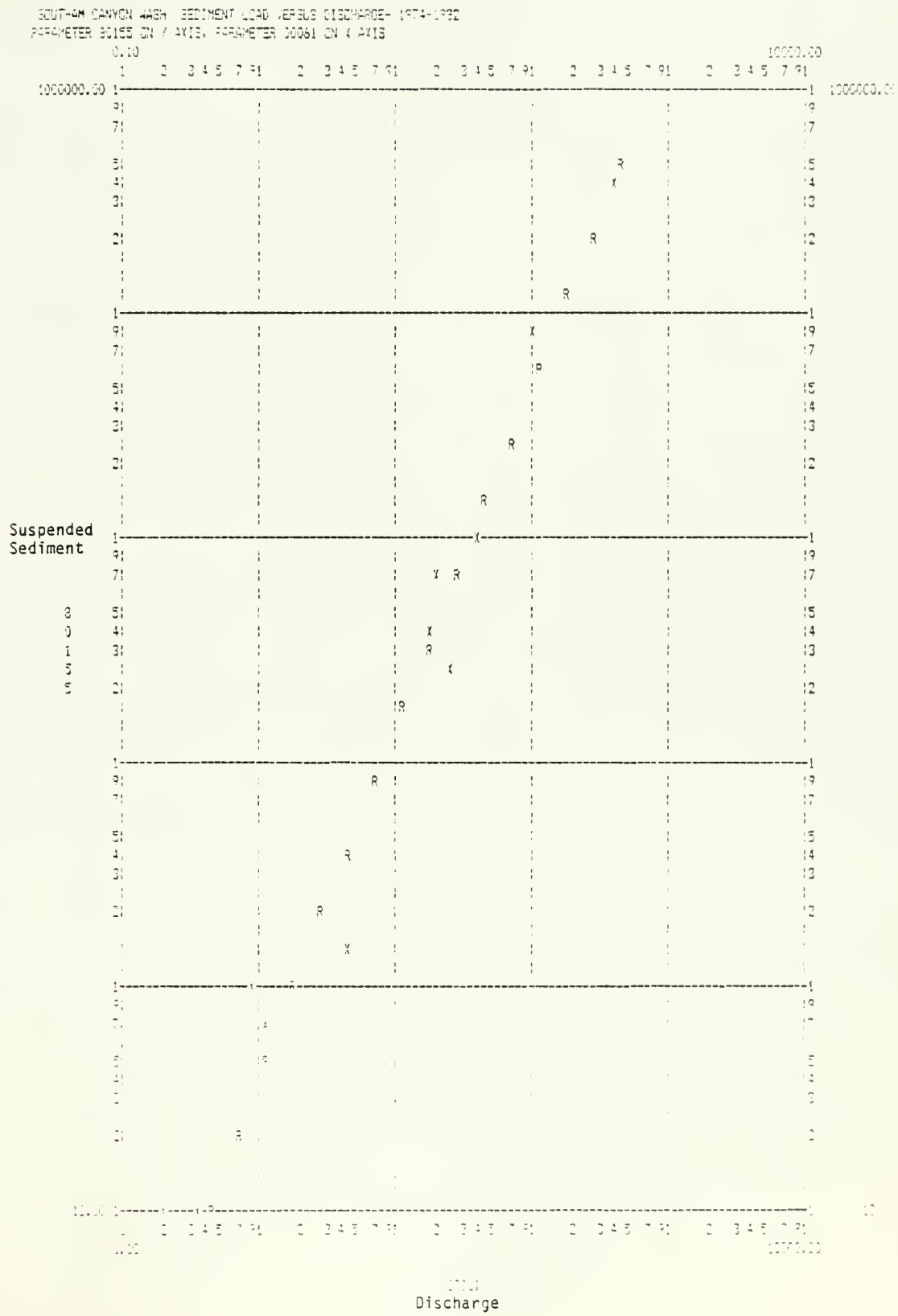
SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***09306610		
1976/ 2/10--1645	135.00	4.70
***09306610		
1976/ 6/22--1200	7182.00	20.00
***09306610		
1976/ 6/22--1200	4082.00	17.50
***09306610		
1979/ 9/26--1800	411717.00	392.00
***09306610		
1980/ 2/19--1420	2836.35	25.00
***09306610		
1980/ 8/25--1545	9297.00	39.00
***09306610		
1982/ 8/ 2--1810	78870.00	107.00
***09306610		
1982/ 7/29--1015	70.69	1.10

NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 8

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR EE	MEAN X	MEAN Y	N
1.5105	1.5928	0.98	0.2922	1.3587	3.6724	8

***LOG-LOG PLOT REQUESTED



EXPLANATION OF PLOT

- SYMBOL FOR A SINGLE Y-X PLOT PT.=X
- SYMBOL FOR LEAST SQ.REGRESSION LN=R

Surface Water Statistical Summaries: Sediment Discharge

B. Single-Year Plots
- White River below Asphalt Wash (Sta. No. 09306700):

  1974 Water Year
  1975 Water Year
  1976 Water Year
  1977 Water Year
  1978 Water Year
  1979 Water Year
  1980 Water Year
  1981 Water Year
  1982 Water Year

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE - 14-75

***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00

***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00

***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1974/11/13--1530	126.00	416.00
***000000009306700		
1975/ 1/17--1300	207.00	330.00
***000000009306700		
1975/ 1/24--1155	163.00	390.00
***000000009306700		
1975/ 1/27--1310	556.00	450.00
***000000009306700		
1975/ 1/29--1240	243.00	400.00
***000000009306700		
1975/ 2/ 3--1120	210.00	410.00
***000000009306700		
1975/ 2/ 5--1330	165.00	355.00
***000000009306700		
1975/ 2/ 7--1115	157.00	400.00
***000000009306700		
1975/ 2/10--1355	249.00	420.00
***000000009306700		
1975/ 2/19--1115	182.00	360.00
***000000009306700		
1975/ 2/21--1115	118.00	340.00
***000000009306700		
1975/ 2/24--1130	124.00	310.00
***000000009306700		
1975/ 2/26--1155	200.00	360.00
***000000009306700		
1975/ 3/ 3--1320	664.00	580.00
***000000009306700		
1975/ 3/ 7--1100	1050.00	640.00
***000000009306700		
1975/ 3/10--1235	2660.00	594.00
***000000009306700		
1975/ 3/12--1220	2360.00	520.00
***000000009306700		
1975/ 3/17--1240	2450.00	560.00
***000000009306700		
1975/ 3/24--1350	850.00	460.00
***000000009306700		
1975/ 4/ 3--1350	504.00	415.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE - 1975

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1975/ 4/ 4--1500	336.00	382.00
***000000009306700		
1975/ 4/14--1255	466.00	411.00
***000000009306700		
1975/ 4/21--1305	848.00	445.00
***000000009306700		
1975/ 5/15--1545	5860.00	915.00
***000000009306700		
1975/ 5/19--1405	49100.00	2090.00
***000000009306700		
1975/ 5/22--1400	54000.00	2780.00
***000000009306700		
1975/ 5/27--1405	15600.00	1770.00
***000000009306700		
1975/ 5/29--1455	22700.00	1970.00
***000000009306700		
1975/ 6/ 4--1620	23100.00	2360.00
***000000009306700		
1975/ 6/ 9--1430	48300.00	3960.00
***000000009306700		
1975/ 6/12--1315	21900.00	2700.00
***000000009306700		
1975/ 6/16--1230	27500.00	3340.00
***000000009306700		
1975/ 6/24--1315	11100.00	2180.00
***000000009306700		
1975/ 6/27--1120	13200.00	2550.00
***000000009306700		
1975/ 7/ 1--1200	13600.00	2660.00
***000000009306700		
1975/ 7/ 8--1600	19700.00	2380.00
***000000009306700		
1975/ 7/16--1450	15900.00	1260.00
***000000009306700		
1975/ 7/29--1310	629.00	600.00
***000000009306700		
1975/ 8/ 7--1500	323.00	486.00
***000000009306700		
1975/ 8/14--1345	5410.00	439.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE -1975

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1975/ 8/22--1430	190.00	396.00
***000000009306700 1975/ 8/28--1325	117.00	352.00
***000000009306700 1975/ 9/ 2--1500	61.00	334.00
***000000009306700 1975/ 9/ 9--1400	39.00	315.00
***000000009306700 1975/ 9/22--1430	219.00	390.00

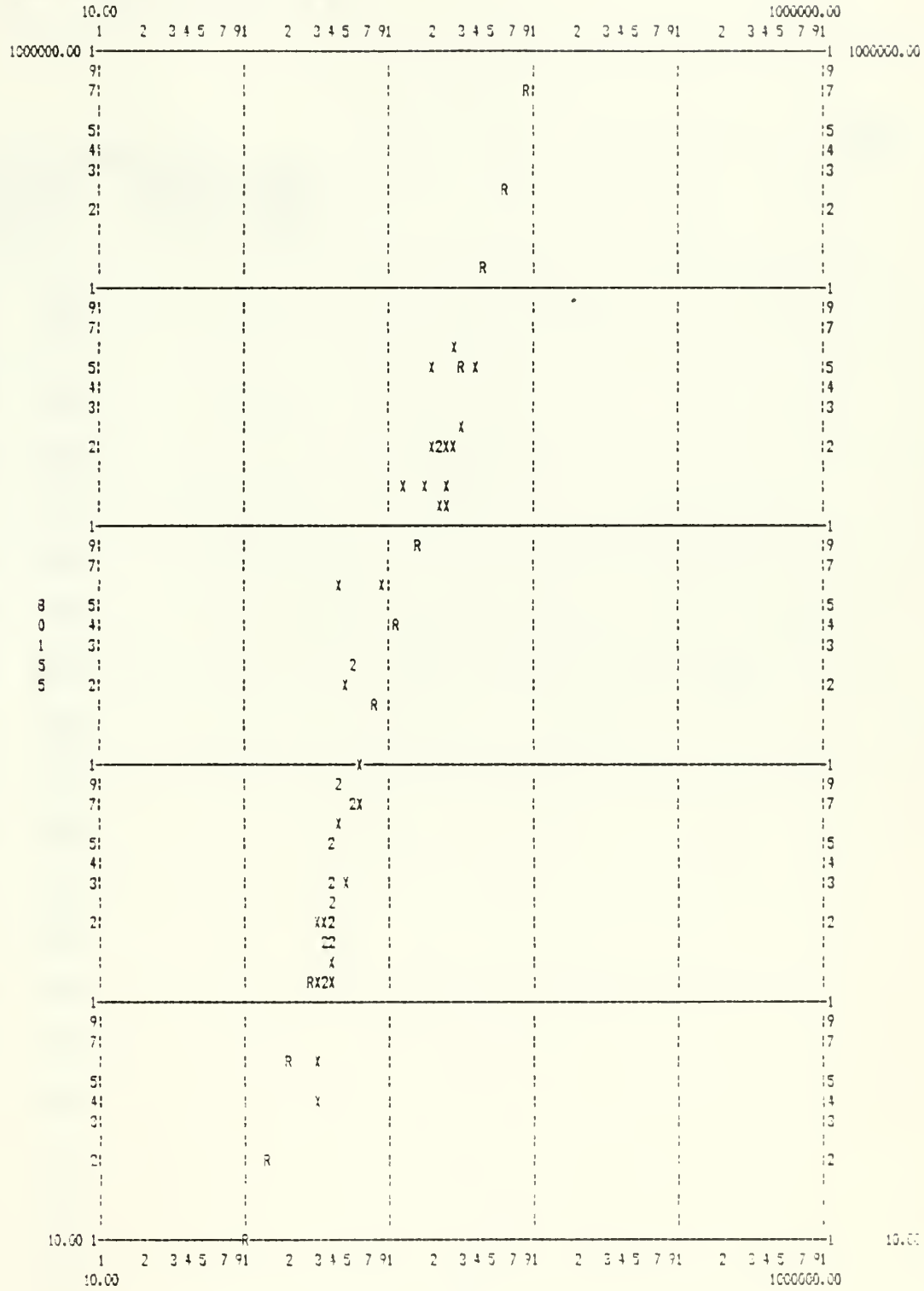
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 45

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-3.9066	2.4555	0.93	0.3435	2.8477	3.0860	45

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE - 1975
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



00061

EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND X FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00

***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00

***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1975/10/ 9--1500	313.00	437.00
***000000009306700 1975/11/ 3--1250	480.00	501.00
***000000009306700 1975/12/ 2--1300	233.00	331.00
***000000009306700 1975/12/17--1340	72.00	203.00
***000000009306700 1976/ 1/15--1310	99.00	270.00
***000000009306700 1976/ 1/30--1300	191.00	300.00
***000000009306700 1976/ 2/ 3--1345	137.00	330.00
***000000009306700 1976/ 2/19--1230	882.00	500.00
***000000009306700 1976/ 3/ 1--1305	7270.00	901.00
***000000009306700 1976/ 3/18--1230	4360.00	616.00
***000000009306700 1976/ 3/25--1225	4110.00	556.00
***000000009306700 1976/ 4/ 2--1105	638.00	395.00
***000000009306700 1976/ 4/ 6--1545	792.00	460.00
***000000009306700 1976/ 4/ 7--1335	1480.00	490.00
***000000009306700 1976/ 4/ 8--1330	1110.00	500.00
***000000009306700 1976/ 4/ 9--1330	1030.00	534.00
***000000009306700 1976/ 4/12--1015	946.35	500.00
***000000009306700 1976/ 4/13--1320	515.43	460.00
***000000009306700 1976/ 4/14--1150	400.50	465.00
***000000009306700 1976/ 4/15--1635	790.40	574.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1976/ 4/16-- 930	652.05	525.00
***000000009306700		
1976/ 4/19--1320	416.34	514.00
***000000009306700		
1976/ 4/20--1030	1832.22	580.00
***000000009306700		
1976/ 4/21--1045	1544.40	520.00
***000000009306700		
1976/ 4/22--1245	920.16	480.00
***000000009306700		
1976/ 4/23--1400	338.98	465.00
***000000009306700		
1976/ 4/26--1100	877.50	500.00
***000000009306700		
1976/ 4/27--1130	1287.90	530.00
***000000009306700		
1976/ 5/ 3--1445	1950.00	694.00
***000000009306700		
1976/ 5/ 4--1340	2916.00	800.00
***000000009306700		
1976/ 5/ 7--1315	5694.00	950.00
***000000009306700		
1976/ 5/10--1320	6510.00	880.00
***000000009306700		
1976/ 5/13--1435	16911.00	1430.00
***000000009306700		
1976/ 5/14--1145	12780.00	1430.00
***000000009306700		
1976/ 5/17--1255	14279.00	1830.00
***000000009306700		
1976/ 5/18--1300	19304.00	1810.00
***000000009306700		
1976/ 5/19--1240	23729.00	1890.00
***000000009306700		
1976/ 5/20--1510	20766.00	2090.00
***000000009306700		
1976/ 5/21--1130	22188.00	2070.00
***000000009306700		
1976/ 5/25--1200	6428.00	1790.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1976/ 5/27--1315	8316.00	1540.00
***000000009306700		
1976/ 6/ 1--1440	7483.00	1640.00
***000000009306700		
1976/ 6/ 2--1400	6237.00	1540.00
***000000009306700		
1976/ 6/ 4--1130	8624.00	1690.00
***000000009306700		
1976/ 6/ 7--1150	6499.00	1660.00
***000000009306700		
1976/ 6/ 8--1220	5608.00	1610.00
***000000009306700		
1976/ 6/ 9--1500	6820.00	1640.00
***000000009306700		
1976/ 6/10--1147	6477.00	1490.00
***000000009306700		
1976/ 6/11--1200	6905.00	1550.00
***000000009306700		
1976/ 6/15--1800	2636.93	1090.00
***000000009306700		
1976/ 6/16-- 600	2455.11	1050.00
***000000009306700		
1976/ 6/16--1200	2130.25	1030.00
***000000009306700		
1976/ 6/16--1800	1942.12	984.00
***000000009306700		
1976/ 6/17--1300	2587.10	895.50
***000000009306700		
1976/ 6/18--1245	1307.11	785.90
***000000009306700		
1976/ 6/21--1115	1042.32	690.60
***000000009306700		
1976/ 6/22--1030	959.98	650.00
***000000009306700		
1976/ 6/22--1430	8362.00	804.40
***000000009306700		
1976/ 6/24--1230	18176.00	970.00
***000000009306700		
1976/ 6/28--1440	911.62	604.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1976/ 6/29--1135	822.38	548.80
***000000009306700		
1976/ 6/30--1330	927.03	625.40
***000000009306700		
1976/ 7/ 1--1045	627.88	486.50
***000000009306700		
1976/ 7/ 2--1235	446.85	500.00
***000000009306700		
1976/ 7/ 6--1430	285.68	394.80
***000000009306700		
1976/ 7/ 7--1145	325.00	399.90
***000000009306700		
1976/ 7/ 8--1130	176.90	364.00
***000000009306700		
1976/ 7/ 9--1530	3282.00	381.00
***000000009306700		
1976/ 7/12--1115	140.40	250.00
***000000009306700		
1976/ 7/14--1315	185.27	235.00
***000000009306700		
1976/ 7/15--1200	142.04	274.00
***000000009306700		
1976/ 7/16--1145	61.12	137.20
***000000009306700		
1976/ 7/19--1345	87.91	185.00
***000000009306700		
1976/ 7/20--1140	2903.32	313.50
***000000009306700		
1976/ 7/21--1430	3090.00	469.00
***000000009306700		
1976/ 7/22--1145	1514.76	389.60
***000000009306700		
1976/ 7/23--1200	577.49	336.30
***000000009306700		
1976/ 7/27--1200	388.35	213.40
***000000009306700		
1976/ 7/28--1215	1488.02	332.00
***000000009306700		
1976/ 7/29--1415	1194.48	280.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1976/ 7/30--1100	386.69	220.00
***000000009306700		
1976/ 8/ 2--1130	46035.00	620.00
***000000009306700		
1976/ 8/ 3--1200	27325.00	355.10
***000000009306700		
1976/ 8/ 4--1115	4608.00	336.60
***000000009306700		
1976/ 8/ 5--1215	1360.08	327.10
***000000009306700		
1976/ 8/ 6--1200	898.66	270.60
***000000009306700		
1976/ 8/ 9--1200	258.84	242.70
***000000009306700		
1976/ 8/10--1200	1796.26	224.00
***000000009306700		
1976/ 8/11--1200	1091.34	235.00
***000000009306700		
1976/ 8/12--1500	478.24	325.00
***000000009306700		
1976/ 8/13--1400	1194.18	384.60
***000000009306700		
1976/ 8/16--1100	415.21	330.00
***000000009306700		
1976/ 8/16--1145	233.24	287.00
***000000009306700		
1976/ 8/17--1150	249.42	247.00
***000000009306700		
1976/ 8/18--1130	193.35	310.00
***000000009306700		
1976/ 8/19--1100	138.09	239.00
***000000009306700		
1976/ 8/20--1100	136.71	247.00
***000000009306700		
1976/ 8/24--1100	120.58	290.00
***000000009306700		
1976/ 8/25--1200	139.43	302.00
***000000009306700		
1976/ 8/26--1245	84.37	250.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1976/ 8/27--1300	78.02	224.00
***000000009306700 1976/ 8/30--1145	83.32	243.00
***000000009306700 1976/ 8/31--1115	64.45	217.00
***000000009306700 1976/ 9/ 1--1245	83.01	252.00
***000000009306700 1976/ 9/ 2--1100	80.03	247.00
***000000009306700 1976/ 9/ 3--1200	50.39	217.00
***000000009306700 1976/ 9/ 7--1345	128.17	235.00
***000000009306700 1976/ 9/ 8--1200	51.41	224.00
***000000009306700 1976/ 9/ 9--1330	61.67	243.00
***000000009306700 1976/ 9/13--1115	52.87	220.00
***000000009306700 1976/ 9/14--1310	341.04	228.00
***000000009306700 1976/ 9/15--1230	398.74	260.00
***000000009306700 1976/ 9/17--1230	285.64	313.00
***000000009306700 1976/ 9/20--1440	196.91	390.00
***000000009306700 1976/ 9/24--1145	2434.59	355.00
***000000009306700 1976/ 9/28--1345	754.31	375.00

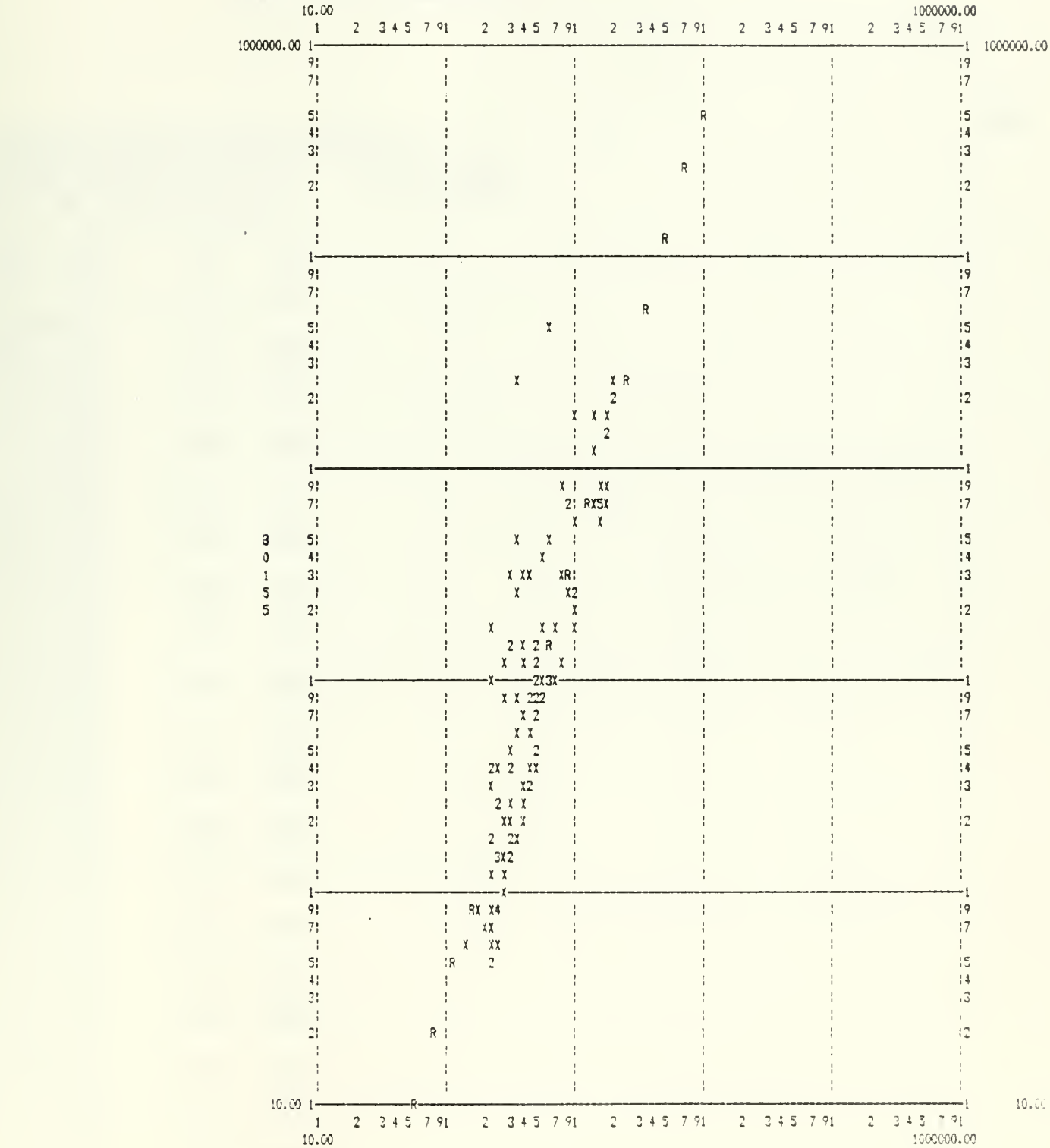
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 116

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-2.6209	2.0777	0.83	0.4188	2.6877	2.9634	116

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1976
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1977

***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00

***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00

***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1976/10/ 7--1100	427.23	385.00
***000000009306700		
1976/10/20--1430	202.18	390.00
***000000009306700		
1976/11/ 4--1145	255.81	363.00
***000000009306700		
1976/11/ 4--1225	237.13	363.00
***000000009306700		
1976/12/13--1115	151.69	307.00
***000000009306700		
1976/12/28-- 930	121.65	256.00
***000000009306700		
1977/ 1/11--1040	65.87	214.00
***000000009306700		
1977/ 1/24--1020	311.20	340.00
***000000009306700		
1977/ 2/ 8--1330	294.90	328.00
***000000009306700		
1977/ 2/22--1030	298.02	378.00
***000000009306700		
1977/ 4/ 5--1030	232.40	313.00
***000000009306700		
1977/ 4/15--1315	608.58	460.00
***000000009306700		
1977/ 5/ 6--1100	530.33	460.00
***000000009306700		
1977/ 5/14-- 855	199.62	366.00
***000000009306700		
1977/ 5/17--1330	348.54	390.00
***000000009306700		
1977/ 5/18--1130	235.76	370.00
***000000009306700		
1977/ 5/19--1100	183.51	384.00
***000000009306700		
1977/ 5/24--1145	37.71	245.00
***000000009306700		
1977/ 5/26--1110	37.71	273.00
***000000009306700		
1977/ 6/ 3-- 950	2102.44	618.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1977

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1977/ 6/ 6--1000	879.29	533.00
***000000009306700 1977/ 6/14--1200	125.01	253.00
***000000009306700 1977/ 6/20--1145	37.67	128.00
***000000009306700 1977/ 7/15--1500	10.58	28.00
***000000009306700 1977/ 7/19--1130	61.04	72.00
***000000009306700 1977/ 7/27--1700	3399.00	226.00
***000000009306700 1977/ 8/ 4--1200	44.95	90.00
***000000009306700 1977/ 8/12--1100	32.92	91.00
***000000009306700 1977/ 8/29--1105	13990.00	408.00
***000000009306700 1977/ 9/ 7--1100	3955.00	194.00
***000000009306700 1977/ 9/15--1100	2901.10	222.00
***000000009306700 1977/ 9/29--1100	94.81	194.00

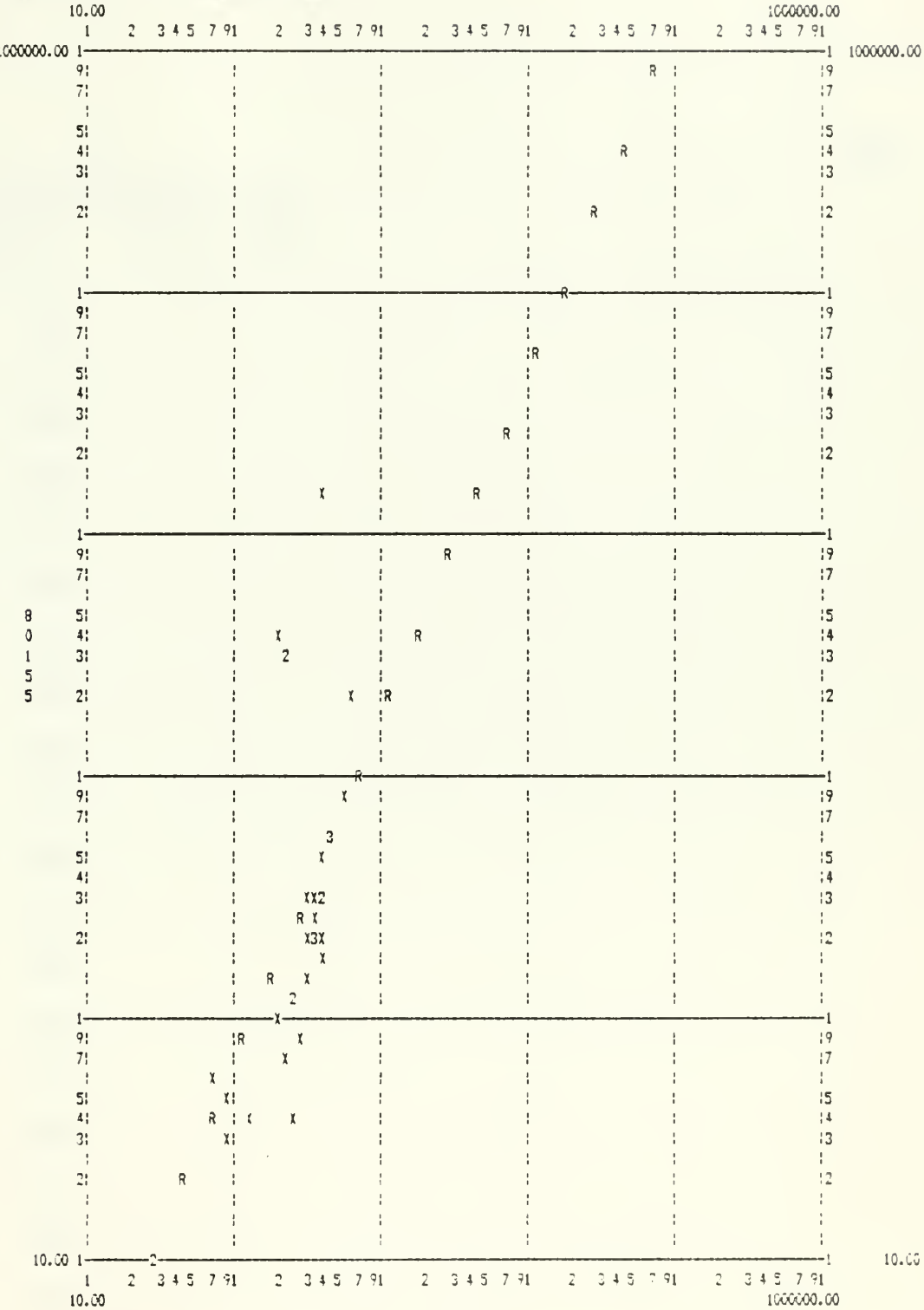
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 32

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-1.0543	1.4306	0.59	0.5560	2.4135	2.3984	32

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1977
PARAMETER 80155 ON Y AXIS, PARAMETER C0061 ON X AXIS



00061

EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1978
***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00
***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00
***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1977/10/10--1230	2570.13	285.00
***000000009306700		
1977/10/13--1045	447.91	258.00
***000000009306700		
1977/10/28--1100	623.88	297.00
***000000009306700		
1977/11/ 9--1100	1404.05	321.00
***000000009306700		
1977/11/28--1100	1695.06	365.00
***000000009306700		
1977/12/ 5--1130	1129.14	340.00
***000000009306700		
1977/12/13--1200	231.34	280.00
***000000009306700		
1977/12/14--1100	1082.59	358.00
***000000009306700		
1977/12/27--1115	288.22	305.00
***000000009306700		
1978/ 1/ 3--1115	749.95	280.00
***000000009306700		
1978/ 1/12--1100	85.50	348.00
***000000009306700		
1978/ 1/26--1215	371.30	360.00
***000000009306700		
1978/ 1/30--1105	196.51	241.00
***000000009306700		
1978/ 2/14--1120	666.95	358.00
***000000009306700		
1978/ 3/ 2--1045	1701.49	389.00
***000000009306700		
1978/ 3/14--1125	2300.80	437.00
***000000009306700		
1978/ 3/30--1045	2447.55	490.00
***000000009306700		
1978/ 4/12--1050	2135.73	561.00
***000000009306700		
1978/ 5/ 1--1030	14120.00	897.00
***000000009306700		
1978/ 5/15--1020	8907.00	976.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1978

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1978/ 5/23--1000	22087.00	2040.00
***000000009306700		
1978/ 5/26--1025	36612.00	3000.00
***000000009306700		
1978/ 5/30--1045	9947.00	2180.00
***000000009306700		
1978/ 6/ 1--1030	15890.00	2290.00
***000000009306700		
1978/ 6/ 5--1030	5332.00	2040.00
***000000009306700		
1978/ 6/ 9--1100	12984.00	2290.00
***000000009306700		
1978/ 6/12--1050	34999.00	3290.00
***000000009306700		
1978/ 6/19--1035	24376.00	3670.00
***000000009306700		
1978/ 6/21--1100	21674.00	3250.00
***000000009306700		
1978/ 6/23--1030	20423.00	3100.00
***000000009306700		
1978/ 6/26--1300	25987.00	3500.00
***000000009306700		
1978/ 6/28--1100	7076.00	2800.00
***000000009306700		
1978/ 6/30-- 925	12172.00	2300.00
***000000009306700		
1978/ 7/ 4-- 800	9660.00	2010.00
***000000009306700		
1978/ 7/10-- 825	2229.50	1060.00
***000000009306700		
1978/ 7/13-- 645	5585.00	1050.00
***000000009306700		
1978/ 7/21-- 820	638.82	700.00
***000000009306700		
1978/ 7/28--1000	281.70	385.00
***000000009306700		
1978/ 7/29--1200	421.08	508.00
***000000009306700		
1978/ 8/ 1--1030	255.96	400.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1978

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1978/ 8/ 8-- 915	200.41	373.00
***000000009306700 1978/ 8/11-- 900	134.54	330.00
***000000009306700 1978/ 8/15-- 945	3147.00	450.00
***000000009306700 1978/ 8/18--1035	500.58	450.00
***000000009306700 1978/ 8/21--1020	407.38	460.00
***000000009306700 1978/ 8/22-- 900	337.94	377.00
***000000009306700 1978/ 8/25--1030	393.52	530.00
***000000009306700 1978/ 9/ 5-- 920	157.38	290.00
***000000009306700 1978/ 9/11--1010	3516.00	370.00

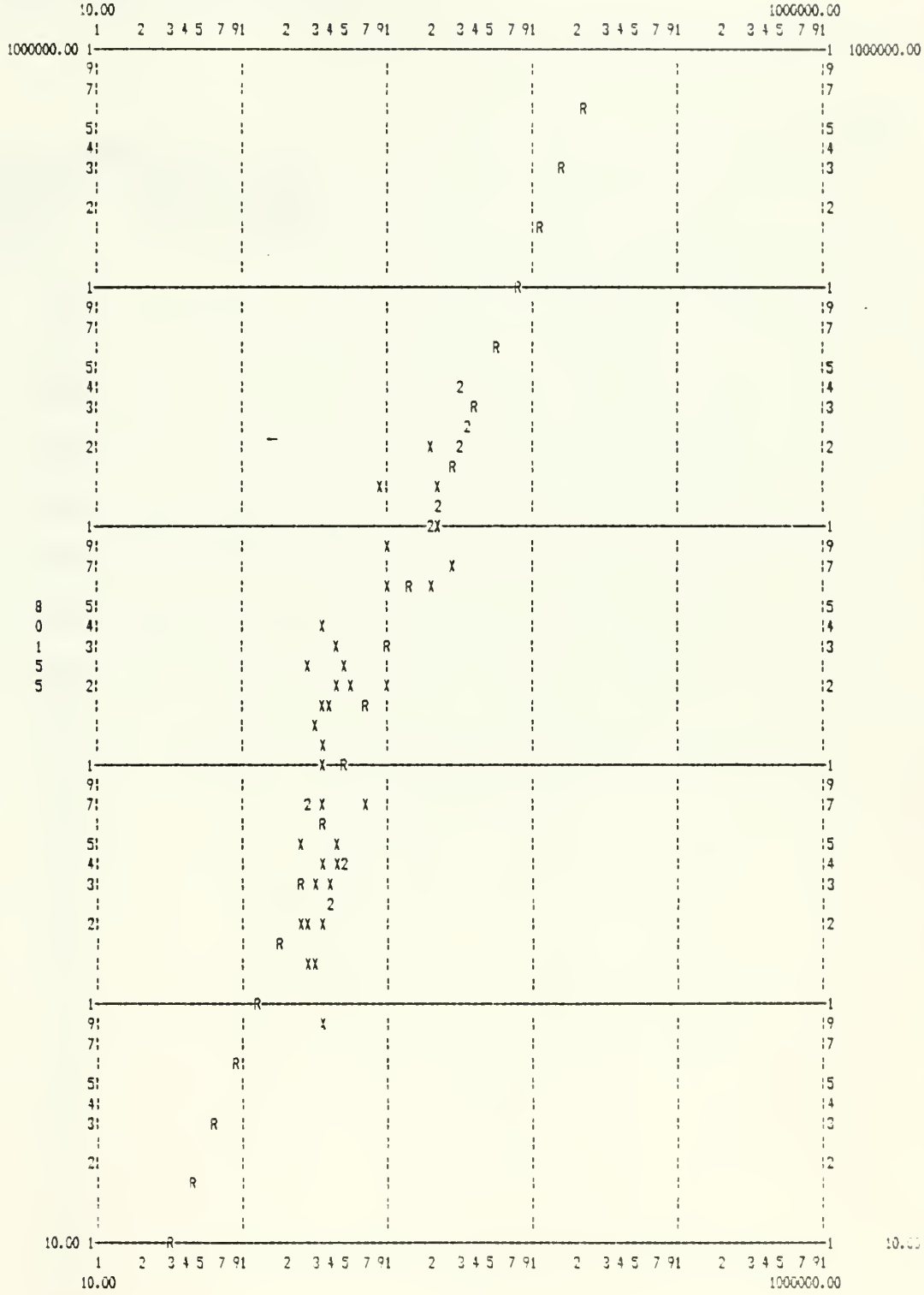
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 49

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-1.4724	1.6659	0.87	0.3810	2.8487	3.2734	49

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1978
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1979
***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00
***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00
***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1978/10/ 2--1130	189.05	389.00
***000000009306700		
1978/10/ 5--1200	180.32	361.00
***000000009306700		
1978/10/10--1115	173.36	369.00
***000000009306700		
1978/10/13--1030	190.10	389.00
***000000009306700		
1978/10/17--1230	182.17	390.00
***000000009306700		
1978/10/20--1045	176.71	385.00
***000000009306700		
1978/10/30--1100	227.56	430.00
***000000009306700		
1978/11/ 3--1130	189.24	430.00
***000000009306700		
1978/11/ 8--1035	181.44	400.00
***000000009306700		
1978/11/14--1030	754.26	551.00
***000000009306700		
1978/11/16--1245	388.93	430.00
***000000009306700		
1978/11/21--1030	176.39	183.00
***000000009306700		
1978/11/30--1230	196.06	313.00
***000000009306700		
1978/12/ 4--1145	72.04	232.00
***000000009306700		
1978/12/26--1415	103.55	408.00
***000000009306700		
1979/ 1/10--1420	100.22	320.00
***000000009306700		
1979/ 1/23--1330	112.45	350.00
***000000009306700		
1979/ 2/23--1300	114.94	330.00
***000000009306700		
1979/ 3/26--1330	8723.00	726.00
***000000009306700		
1979/ 4/ 4--1345	1899.02	506.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1979

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1979/ 4/12--1150	6325.00	685.00
***000000009306700		
1979/ 4/20--1145	7806.00	826.00
***000000009306700		
1979/ 5/ 1--1400	3769.00	826.00
***000000009306700		
1979/ 5/21--1230	69510.00	2590.00
***000000009306700		
1979/ 5/29--1130	56095.00	3710.00
***000000009306700		
1979/ 6/ 5--1300	29966.00	2630.00
***000000009306700		
1979/ 6/14--1300	13331.00	2340.00
***000000009306700		
1979/ 6/25--1315	12710.00	2130.00
***000000009306700		
1979/ 7/ 5--1230	7366.00	1760.00
***000000009306700		
1979/ 7/12--1230	3079.00	898.00
***000000009306700		
1979/ 7/16--1130	1366.78	685.00
***000000009306700		
1979/ 8/ 2--1100	337.30	443.00
***000000009306700		
1979/ 8/ 9-- 915	392.57	405.00
***000000009306700		
1979/ 8/16--1230	411.54	438.00
***000000009306700		
1979/ 8/23--1020	3112.00	585.00
***000000009306700		
1979/ 8/28--1215	717.01	502.00
***000000009306700		
1979/ 9/11--1300	156.56	302.00
***000000009306700		
1979/ 9/19--1140	591.48	385.00
***000000009306700		
1979/ 9/22-- 945	465.20	434.00
***000000009306700		
1979/ 9/26--1130	447.88	377.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1979

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***0C0000009306700		
1979/ 9/28--1345	6160.00	294.00
***000000009306700		
1979/ 9/29--1015	270.86	380.00

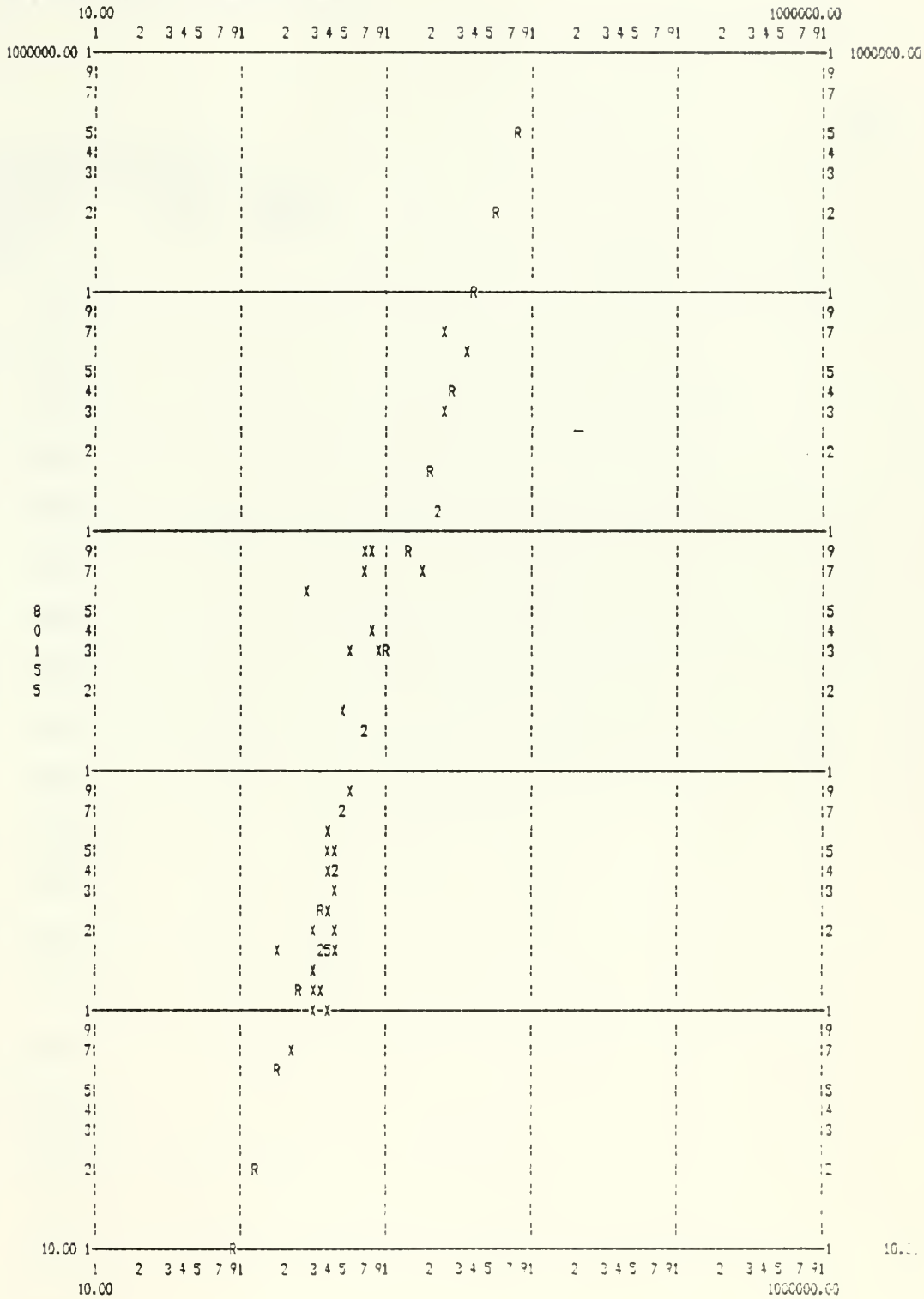
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 42

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-3.6655	2.4005	0.88	0.3990	2.7401	2.9122	42

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1979
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1980

***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00

***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00

***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1979/10/15--1230	365.64	368.00
***000000009306700		
1979/10/24--1040	1431.40	461.00
***000000009306700		
1979/11/ 2--1315	298.93	394.00
***000000009306700		
1979/12/13--1315	177.57	339.00
***000000009306700		
1980/ 1/ 7--1330	158.98	368.00
***000000009306700		
1980/ 2/ 7--1430	266.06	379.00
***000000009306700		
1980/ 2/29--1310	4659.00	693.00
***000000009306700		
1980/ 3/ 7--1330	4143.00	670.00
***000000009306700		
1980/ 3/11--1330	4033.00	485.00
***000000009306700		
1980/ 3/20--1230	613.28	410.00
***000000009306700		
1980/ 4/ 3--1340	456.08	409.00
***000000009306700		
1980/ 4/11-- 930	538.20	485.00
***000000009306700		
1980/ 4/15--1415	447.63	434.00
***000000009306700		
1980/ 5/ 1--1315	11068.00	1220.00
***000000009306700		
1980/ 5/12--1245	36632.00	2110.00
***000000009306700		
1980/ 5/15--1030	24288.00	1720.00
***000000009306700		
1980/ 5/19--1300	22349.00	1750.00
***000000009306700		
1980/ 5/22--1000	23304.00	2100.00
***000000009306700		
1980/ 5/28--1230	24457.00	2390.00
***000000009306700		
1980/ 6/ 4--1000	11278.00	2210.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1980

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700 1980/ 6/ 9--1220	18109.00	2620.00
***000000009306700 1980/ 6/13--1045	15557.00	2970.00
***000000009306700 1980/ 6/19--1145	8684.00	2130.00
***000000009306700 1980/ 6/20--1110	10852.00	1980.00
***000000009306700 1980/ 6/25--1315	6195.00	1490.00
***000000009306700 1980/ 7/ 3-- 945	28876.00	1150.00
***000000009306700 1980/ 7/14--1100	677.56	525.00
***000000009306700 1980/ 7/29--1130	209.78	379.00
***000000009306700 1980/ 8/11--1400	100.25	312.00
***000000009306700 1980/ 8/25--1130	5771.00	515.00
***000000009306700 1980/ 9/ 2--1225	502.28	353.00
***000000009306700 1980/ 9/15--1215	635.53	391.00

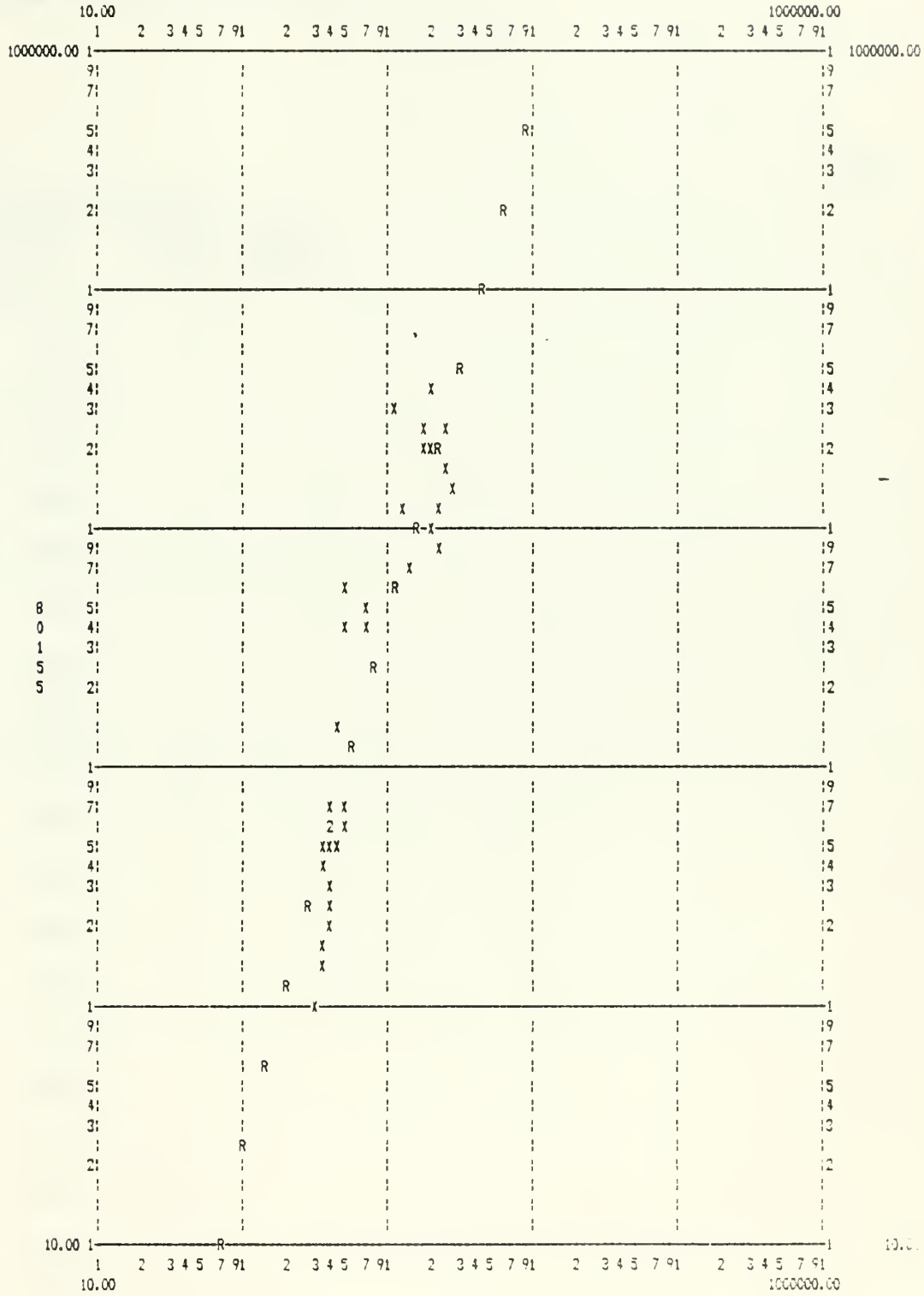
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 32

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-2.9918	2.1975	0.91	0.3559	2.8978	3.3761	32

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1980
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND X FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1981
***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00
***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00
***STATION SORT OPTION NOT REQUESTED

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1980/10/ 7--1145	55.75	295.00
***000000009306700		
1980/10/14--1030	132.72	339.00
***000000009306700		
1980/11/ 3--1020	188.37	408.00
***000000009306700		
1980/11/10--1000	242.42	387.00
***000000009306700		
1980/12/ 1--1030	660.23	493.00
***000000009306700		
1981/ 1/ 5--1010	190.73	338.00
***000000009306700		
1981/ 2/ 2--1010	126.70	237.00
***000000009306700		
1981/ 2/16--1000	1396.28	507.00
***000000009306700		
1981/ 3/ 4--1030	190.74	348.00
***000000009306700		
1981/ 3/16--1130	128.52	340.00
***000000009306700		
1981/ 4/ 2-- 915	647.09	443.00
***000000009306700		
1981/ 5/ 4--1035	9269.00	951.00
***000000009306700		
1981/ 5/12--1030	1085.92	588.00
***000000009306700		
1981/ 5/26--1045	729.75	531.00
***000000009306700		
1981/ 6/ 4-- 930	8644.00	1398.00
***000000009306700		
1981/ 6/ 8--1115	7679.00	1489.00
***000000009306700		
1981/ 6/17--1100	934.40	635.00
***000000009306700		
1981/ 6/26--1000	107.66	275.00
***000000009306700		
1981/ 7/ 6--1115	325.04	418.00
***000000009306700		
1981/ 7/20--1100	764.87	387.00

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1981

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1981/ 8/ 2--1040	116.80	239.00
***000000009306700		
1981/ 8/20--1100	307.35	248.00
***000000009306700		
1981/ 9/ 3--1030	1684.80	260.00
***000000009306700		
1981/ 9/17-- 950	702.79	327.00

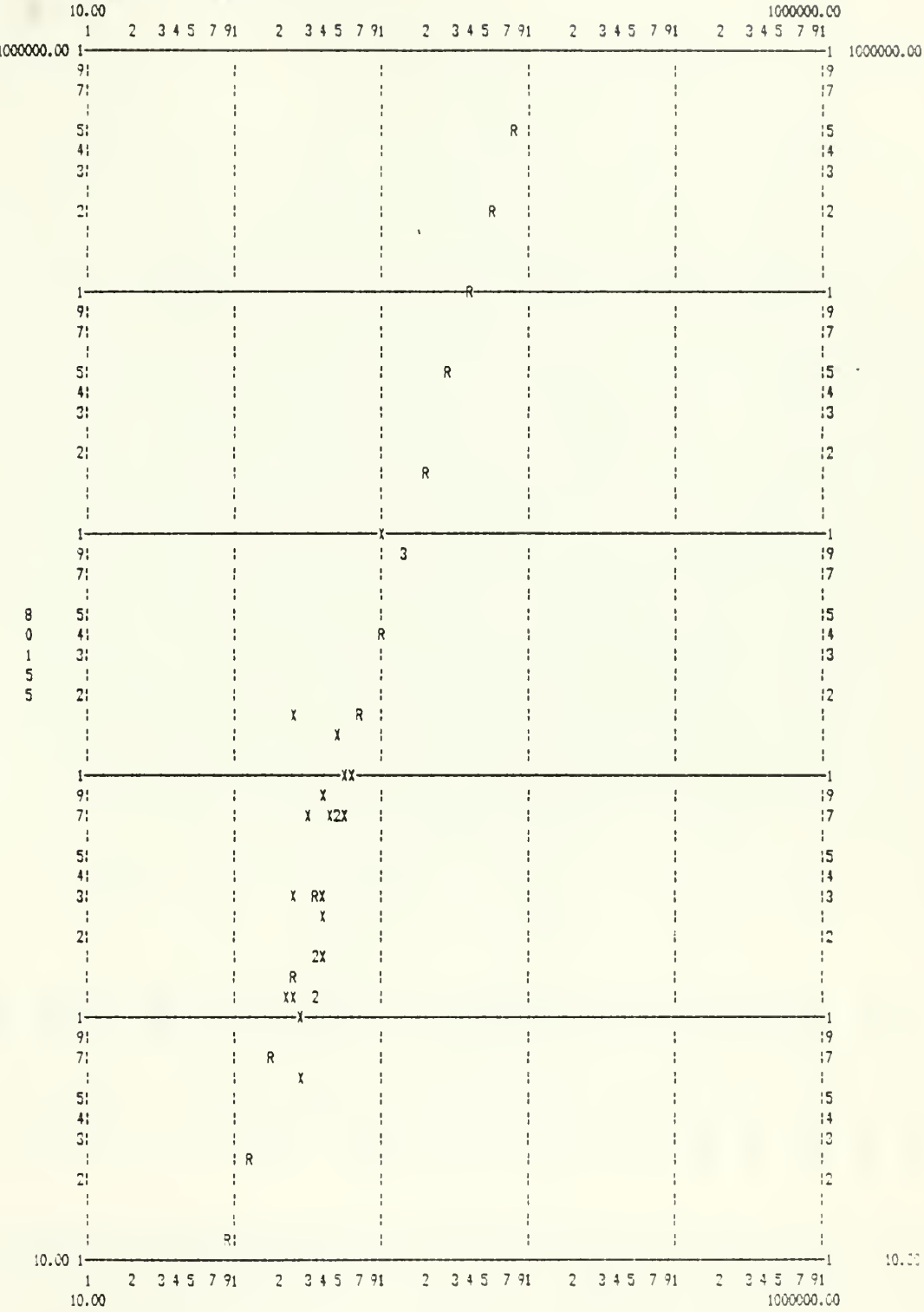
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 24

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-3.5286	2.3665	0.83	0.3485	2.6318	2.6996	24

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1981
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1982

***PLOT RANGE FOR 80155 ON THE Y-AXIS IS 10.00 TO 100000.00

***PLOT RANGE FOR 00061 ON THE X-AXIS IS 10.00 TO 10000.00

***STATION SORT OPTION NOT REQUESTED

White River Below Asphalt Wash
(Sta. No. 09306700)

Linear Regression of Suspended Sediment (Y)
Vs. Discharge (X) 1982 Water Year
(N=29)

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1981/10/ 1--1030	204.74	267.00
***000000009306700		
1981/10/21--1130	935.77	430.00
***000000009306700		
1981/11/ 9--1130	392.22	426.00
***000000009306700		
1981/12/ 1--1050	205.57	307.00
***000000009306700		
1981/12/16--1020	247.86	270.00
***000000009306700		
1982/ 1/ 4--1045	27.00	200.00
***000000009306700		
1982/ 1/21--1245	309.89	407.00
***000000009306700		
1982/ 2/ 8--1000	79.36	176.00
***000000009306700		
1982/ 3/ 5--1030	8983.00	717.00
***000000009306700		
1982/ 3/16--1000	869.62	440.00
***000000009306700		
1982/ 4/ 2--1200	275.62	352.00
***000000009306700		
1982/ 4/13-- 915	498.07	390.00
***000000009306700		
1982/ 4/20--1200	2191.75	584.00
***000000009306700		
1982/ 4/27--1220	4338.00	714.00
***000000009306700		
1982/ 5/ 4--1145	25967.00	1370.00
***000000009306700		
1982/ 5/13--1115	9437.00	1360.00
***000000009306700		
1982/ 5/26--1130	18542.00	2050.00
***000000009306700		
1982/ 6/ 4--1145	10881.00	1910.00
***000000009306700		
1982/ 6/15--1100	9465.00	2050.00
***000000009306700		

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1982

SITE IDENTIFICATION DATE TIME	Y 80155	X 00061
***000000009306700		
1982/ 7/ 1--1225	7307.00	1990.00
***000000009306700		
1982/ 7/ 8--1215	4244.00	1310.00
***000000009306700		
1982/ 7/17-- 810	1347.64	825.00
***000000009306700		
1982/ 7/27--1100	1259.55	622.00
***000000009306700		
1982/ 8/ 5--1145	3904.00	605.00
***000000009306700		
1982/ 8/12--1015	6182.00	530.00
***000000009306700		
1982/ 8/19-- 945	3266.00	560.00
***000000009306700		
1982/ 9/ 1--1000	2365.79	454.00
***000000009306700		
1982/ 9/20--1100	22154.00	562.00

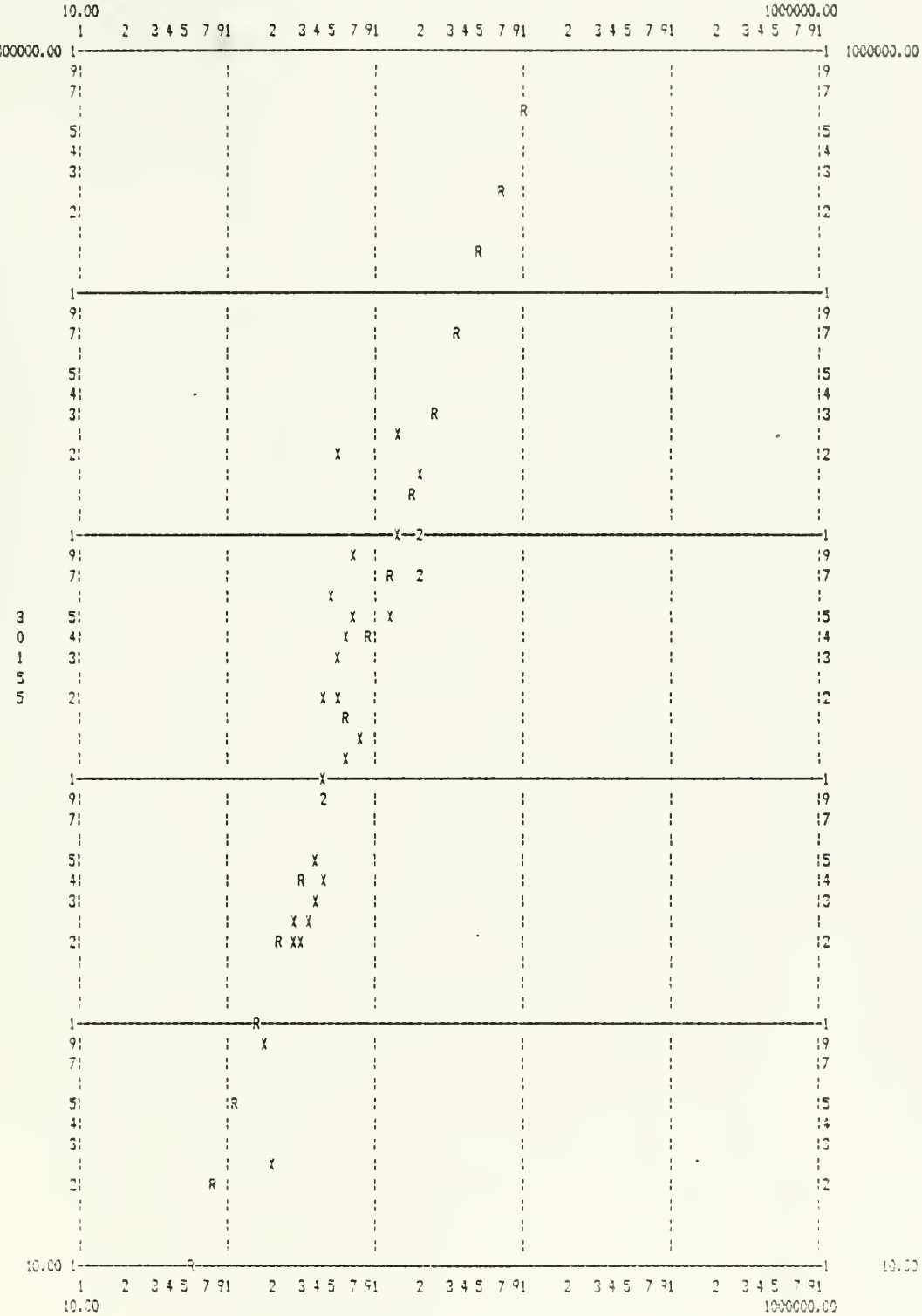
NUMBER OF Y (80155) AND X (00061) VALUES ACCEPTED FOR PLOTTING = 29

LEAST SQUARES REGRESSION SUMMARY

INTERCEPT	SLOPE	CORRELATION COEFFICIENT	STANDARD ERROR SE	MEAN X	MEAN Y	N
-2.6073	2.0900	0.84	0.4262	2.8030	3.2510	29

***LOG-LOG PLOT REQUESTED

WHITE RIVER SEDIMENT LOAD VERSUS DISCHARGE- 1982
PARAMETER 80155 ON Y AXIS, PARAMETER 00061 ON X AXIS



EXPLANATION OF PLOT
SYMBOL FOR A SINGLE Y-X PLOT POINT = X
SYMBOL FOR LEAST SQUARES REGRESSION LINE = R
NUMBERS 2 TO 9 ARE USED FOR OVERPRINTED Y-X PLOT VALUES AND * FOR MORE THAN 9 VALUES

Ground Water Data

Bedrock Aquifer Wells - Water Levels

- Well P-1, Mean Daily Water Level (Feet below Land Surface Datum)
- Well P-2 Lower, Mean Daily Water Level (Feet below Land Surface Datum)
- Well P-2 Upper, Mean Daily Water Level (Feet below Land Surface Datum)
- Well P-3 Mean Daily Water Level (Feet below Land Surface Datum)

STATION NUMBER: 395733109095401 NAME: P-1

WATER LEVEL (FEET BELOW LAND SURFACE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279.01	279.53	279.00	278.59	279.11	279.06	278.76	279.07	278.55	280.84	279.84	282.13
2	278.84	279.36	279.00	278.63	279.12	278.82	278.90	279.05	280.35	280.92	279.93	282.16
3	278.68	279.13	279.12	278.93	278.90	278.74	279.00	279.01	282.09	280.87	280.12	282.08
4	278.75	279.04	279.23	278.97	279.01	278.82	278.90	278.96	282.24	280.71	280.22	282.05
5	278.98	279.12	279.09	278.74	279.30	278.98	279.07	279.06	282.29	280.74	280.34	282.14
6	279.06	279.14	279.01	278.93	279.42	279.09	278.81	279.08	282.64	280.91	280.36	282.14
7	278.79	279.05	279.06	279.40	279.09	278.98	278.88	278.98	282.70	280.84	280.36	282.10
8	278.65	279.23	279.14	279.48	278.92	278.98	279.08	278.79	283.23	280.81	280.45	282.02
9	278.87	279.31	279.11	279.32	278.97	279.07	279.13	278.69	283.53	280.82	280.42	281.94
10	278.84	279.24	278.97	279.09	278.96	278.99	279.20	278.82	283.54	280.83	280.42	281.79
11	278.66	279.13	278.85	278.79	279.06	278.77	279.02	278.92	283.58	280.79	280.66	281.84
12	278.71	279.00	278.83	278.75	279.34	278.78	278.96	278.88	283.58	280.76	280.84	281.84
13	278.77	278.95	278.86	278.94	279.21	278.96	279.00	278.99	283.62	280.68	281.06	281.81
14	278.93	278.92	279.00	278.93	278.93	278.78	278.86	279.12	283.70	280.60	281.22	281.98
15	278.92	279.02	278.83	278.85	279.02	278.64	278.85	279.06	283.90	280.36	281.38	281.89
16	278.86	279.06	278.92	278.93	279.06	278.76	279.15	279.07	283.94	278.96	281.50	281.79
17	279.04	278.93	279.15	278.77	279.07	278.90	279.17	279.06	283.64	277.34	281.54	281.82
18	279.19	279.02	279.12	278.66	279.15	278.78	279.05	278.91	282.10	277.13	281.58	281.81
19	279.05	279.17	278.98	278.70	279.23	278.92	279.20	278.94	281.71	276.98	281.68	281.73
20	278.88	279.07	278.74	278.74	279.26	279.05	279.28	279.09	281.46	277.03	281.81	281.73
21	278.85	279.05	278.62	278.57	279.19	279.13	279.29	279.04	281.30	277.64	281.85	281.73
22	278.95	278.92	278.83	278.83	278.97	279.11	279.21	278.90	281.26	277.57	281.79	281.66
23	278.87	278.91	279.02	279.11	278.88	278.98	279.04	278.87	281.20	277.45	281.77	281.63
24	278.55	278.74	279.03	279.13	279.05	278.92	278.89	278.88	281.12	277.39	281.83	281.64
25	278.96	278.64	278.81	279.15	279.07	279.04	278.95	278.75	281.05	277.36	281.86	281.54
26	279.09	278.81	278.70	278.88	279.05	278.87	279.01	278.64	281.07	277.49	281.88	281.23
27	279.10	278.83	278.63	278.88	279.03	278.96	279.05	278.59	280.96	277.94	281.95	281.08
28	279.01	279.05	278.91	278.82	279.17	278.81	279.05	278.70	280.83	278.45	281.98	281.19
29	278.82	278.89	278.94	278.80	---	278.58	279.00	278.71	280.83	278.83	282.00	281.26
30	279.14	278.92	278.69	279.05	---	278.87	279.07	278.75	280.84	279.74	281.96	281.20
31	279.53	---	278.80	278.93	---	279.05	---	278.83	---	279.89	282.03	---
MEAN	278.91	279.04	278.93	278.91	279.09	278.91	279.03	278.91	282.09	279.31	281.13	281.76

WTR YR 1982 MEAN: 279.67 MAX: 283.94 MIN: 276.98

STATION NUMBER: 395617109134401 NAME: P-2 UPPER

WATER LEVEL (FEET BELOW LAND SURFACE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95.59	95.59	95.32	95.04	95.44	95.52	95.15	95.40	95.21	95.24	95.35	95.52
2	95.45	95.50	95.32	95.05	95.48	95.34	95.24	95.39	95.25	95.33	95.32	95.55
3	95.33	95.38	95.41	95.28	95.31	95.26	95.33	95.36	95.28	95.30	95.34	95.49
4	95.35	95.30	95.52	95.30	95.37	95.31	95.25	95.30	95.21	95.21	95.37	95.45
5	95.51	95.36	95.45	95.10	95.61	95.42	95.40	95.39	95.16	95.24	95.46	95.51
6	95.59	95.36	95.40	95.30	95.72	95.50	95.19	95.42	95.32	95.41	95.46	95.55
7	95.39	95.32	95.46	95.67	95.48	95.42	95.21	95.34	95.23	95.37	95.46	95.53
8	95.27	95.45	95.53	95.77	95.35	95.42	95.39	95.19	95.24	95.35	95.50	95.50
9	95.45	95.53	95.51	95.68	95.40	95.49	95.41	95.12	95.30	95.38	95.45	95.44
10	95.41	95.49	95.42	95.55	95.38	95.42	95.47	95.18	95.28	95.42	95.40	95.33
11	95.27	95.43	95.34	95.33	95.44	95.27	95.37	95.25	95.25	95.42	95.41	95.30
12	95.30	95.34	95.31	95.30	95.68	95.26	95.30	95.22	95.20	95.42	95.42	95.30
13	95.34	95.31	95.32	95.44	95.58	95.40	95.35	95.27	95.16	95.38	95.42	95.30
14	95.47	95.28	95.44	95.42	95.36	95.24	95.25	95.37	95.17	95.31	95.42	95.46
15	95.49	95.34	95.28	95.35	95.42	95.11	95.22	95.35	95.27	95.25	95.45	95.44
16	95.46	95.35	95.35	95.43	95.46	95.21	95.41	95.37	95.27	95.26	95.49	95.39
17	95.60	95.27	95.53	95.29	95.48	95.28	95.44	95.35	95.22	95.28	95.49	95.43
18	95.76	95.33	95.51	95.21	95.54	95.19	95.40	95.23	95.18	95.34	95.46	95.44
19	95.69	95.46	95.41	95.22	95.60	95.29	95.49	95.27	95.18	95.36	95.48	95.41
20	95.60	95.40	95.24	95.24	95.65	95.40	95.57	95.32	95.19	95.39	95.53	95.43
21	95.60	95.38	95.15	95.08	95.61	95.46	95.59	95.32	95.27	95.42	95.53	95.46
22	95.69	95.30	95.28	95.30	95.44	95.46	95.56	95.33	95.30	95.43	95.45	95.44
23	95.64	95.29	95.40	95.50	95.38	95.37	95.44	95.34	95.31	95.42	95.40	95.44
24	95.38	95.15	95.43	95.53	95.50	95.32	95.32	95.37	95.30	95.42	95.42	95.48
25	95.26	95.05	95.26	95.58	95.51	95.43	95.31	95.31	95.29	95.42	95.43	95.44
26	95.27	95.18	95.19	95.37	95.51	95.28	95.31	95.19	95.31	95.45	95.42	95.24
27	95.26	95.19	95.12	95.41	95.47	95.35	95.31	95.16	95.29	95.46	95.45	95.08
28	95.19	95.35	95.31	95.36	95.59	95.23	95.30	95.24	95.22	95.44	95.46	95.11
29	95.01	95.23	95.33	95.34	---	95.04	95.34	95.29	95.21	95.44	95.46	95.16
30	95.25	95.26	95.14	95.54	---	95.25	95.42	95.32	95.23	95.46	95.42	95.16
31	95.57	---	95.23	95.44	---	95.37	---	95.37	---	95.47	95.44	---
MEAN	95.43	95.34	95.35	95.37	95.49	95.33	95.36	95.30	95.24	95.37	95.44	95.39

WTR YR 1982 MEAN: 95.37 MAX: 95.77 MIN: 95.01

STATION NUMBER: 395617109134402 NAME: P-2 LOWER

WATER LEVEL (FEET BELOW LAND SURFACE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157.69	158.15	157.78	157.66	158.17	158.31	158.04	158.48	158.37	158.55	158.76	159.18
2	157.53	158.04	157.73	157.67	158.22	158.09	158.11	158.46	158.40	---	158.91	159.21
3	157.38	157.75	157.84	157.95	158.20	157.97	158.19	158.43	158.46	---	158.94	159.22
4	157.44	157.72	158.01	158.01	158.21	158.01	158.14	158.40	158.39	---	158.98	159.20
5	157.64	157.80	157.93	157.78	158.41	158.15	158.26	158.50	158.29	---	159.06	159.22
6	157.75	157.81	157.87	157.96	158.56	158.19	158.21	158.52	158.52	158.72	159.11	159.24
7	157.52	157.67	157.93	158.19	158.33	158.19	158.22	158.46	158.52	158.67	159.10	159.23
8	157.36	157.81	158.03	158.19	158.20	158.19	158.37	158.31	158.50	158.67	159.13	159.20
9	157.57	157.86	158.04	158.19	158.23	158.19	158.42	158.20	158.63	158.72	159.07	159.20
10	157.53	157.79	157.91	158.19	158.20	158.19	158.51	158.25	158.56	158.76	159.00	159.20
11	157.38	157.71	157.77	158.05	158.22	158.07	158.36	158.33	158.53	158.75	159.01	---
12	157.40	157.65	157.70	157.97	158.45	158.08	158.29	158.29	158.47	158.75	159.02	159.20
13	157.48	157.63	157.70	158.15	158.34	158.18	158.36	158.39	158.45	158.69	159.02	159.20
14	157.63	157.59	157.87	158.14	158.20	158.06	158.23	158.51	158.44	158.61	159.03	159.21
15	157.66	157.66	157.74	158.06	158.20	157.90	158.22	158.47	158.55	158.53	159.07	159.20
16	157.59	157.68	157.83	158.15	158.21	158.00	158.46	158.49	158.57	158.58	159.13	---
17	157.77	157.60	158.05	158.01	158.23	158.10	158.50	158.49	158.51	158.61	159.13	159.20
18	157.99	157.68	158.05	157.87	158.28	158.00	158.42	158.36	158.57	158.66	159.10	159.21
19	157.92	157.86	157.97	157.87	158.38	158.13	158.56	158.38	158.62	158.71	159.12	159.20
20	157.78	157.79	157.78	157.90	158.42	158.19	158.67	158.57	158.60	158.73	159.17	159.20
21	157.75	157.77	157.67	157.72	158.38	158.19	158.69	158.55	158.57	158.78	159.16	---
22	157.84	157.67	157.84	157.97	158.22	158.19	158.63	158.47	158.61	158.81	159.08	159.20
23	157.78	157.67	158.05	158.19	158.20	158.18	158.48	158.48	158.64	158.79	159.02	159.20
24	157.50	157.48	158.10	158.19	158.24	158.17	158.34	158.51	158.62	158.78	159.03	159.23
25	157.60	157.34	157.90	158.19	158.26	158.19	158.39	158.42	158.59	158.80	159.04	159.23
26	157.66	157.51	157.80	158.09	158.25	158.14	158.44	158.30	158.66	158.85	159.03	159.06
27	157.65	157.54	157.70	158.11	158.22	158.19	158.46	158.25	158.60	158.86	159.08	158.77
28	157.57	157.74	157.95	158.10	158.39	158.08	158.44	158.38	158.50	158.86	159.10	158.81
29	157.39	157.64	158.01	158.05	---	157.86	158.40	158.38	158.49	158.85	159.13	158.88
30	157.67	157.64	157.79	158.19	---	158.10	158.49	158.43	158.52	158.87	159.08	158.89
31	158.08	---	157.87	158.15	---	158.19	---	158.57	---	158.90	159.09	---
MEAN	157.63	157.71	157.88	158.03	158.28	158.12	158.38	158.42	158.52	158.74	159.05	159.15

WTR YR 1982 MEAN: 158.31 MAX: 159.24 MIN: 157.34

STATION NUMBER: 395453109111001 NAME: P-3

WATER LEVEL (FEET BELOW LAND SURFACE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450.54	---	---	449.00	450.01	451.48	449.78	451.05	446.88	450.20	450.22	451.38
2	449.98	---	449.93	448.35	450.01	450.86	449.59	451.43	449.03	449.86	449.69	451.52
3	449.22	---	450.57	448.30	449.27	450.53	450.72	451.01	449.41	449.49	449.91	451.14
4	449.34	---	451.23	448.66	449.20	450.63	450.27	450.61	449.08	449.23	450.10	450.79
5	450.47	---	450.51	448.22	450.30	451.04	451.03	450.63	448.04	449.16	450.70	451.28
6	450.94	---	450.06	447.50	451.11	451.60	450.41	450.79	448.05	450.34	451.08	451.41
7	449.57	---	450.57	449.74	450.61	451.44	450.24	450.42	447.98	450.60	451.05	451.31
8	448.59	---	451.05	450.20	450.15	451.31	451.57	449.86	448.40	450.63	451.08	451.13
9	449.58	---	451.09	450.14	450.92	451.75	451.35	449.33	449.29	450.72	450.74	450.99
10	449.70	---	450.56	450.02	450.87	451.66	450.91	449.19	449.47	451.04	450.55	450.41
11	448.91	---	450.33	449.61	450.92	451.28	450.62	449.30	449.50	451.14	450.72	450.24
12	449.62	---	450.41	449.27	451.23	451.02	450.58	448.89	449.51	451.12	450.96	450.57
13	450.21	---	450.45	449.82	450.95	451.63	451.07	447.79	449.60	451.02	451.06	450.78
14	---	---	451.02	449.83	450.16	451.24	450.66	447.39	449.92	450.81	451.21	451.32
15	---	---	450.39	449.56	450.43	450.41	450.20	446.85	450.68	450.65	451.25	451.19
16	---	---	450.51	450.23	450.92	450.88	451.09	447.26	451.08	450.52	451.39	450.96
17	---	---	450.99	449.87	450.98	450.76	451.76	447.75	450.93	450.49	451.29	450.89
18	---	---	450.97	449.58	451.20	449.55	450.72	447.81	450.85	450.31	451.13	450.86
19	---	---	450.35	449.83	451.77	449.03	450.98	447.71	450.61	450.37	451.26	450.76
20	---	---	449.80	449.70	451.96	449.33	451.53	448.50	450.37	450.49	451.71	451.15
21	---	---	449.29	448.54	451.67	449.04	451.49	448.63	450.46	450.74	451.72	451.35
22	---	---	449.75	448.37	451.11	448.65	451.38	448.73	450.79	451.00	451.19	451.21
23	---	---	450.22	449.24	450.73	448.67	450.77	448.56	451.02	450.70	450.96	451.05
24	---	---	450.39	449.61	451.18	449.12	450.13	448.93	450.99	450.65	451.16	451.08
25	---	---	449.90	450.24	450.83	450.47	449.99	449.23	450.87	451.04	451.20	450.87
26	---	---	449.79	449.96	450.43	450.13	450.02	448.85	451.14	451.37	451.08	450.07
27	---	---	449.32	449.83	450.49	450.25	450.24	448.60	450.98	451.44	451.10	449.34
28	---	---	450.05	450.29	451.38	450.14	450.41	448.51	450.66	450.89	450.98	449.44
29	---	---	450.10	450.14	---	449.26	450.06	448.95	450.76	450.63	451.12	449.67
30	---	---	449.18	451.19	---	449.87	450.63	448.38	450.74	450.88	451.01	448.93
31	---	---	449.58	450.58	---	450.72	---	448.90	---	450.88	451.11	---
MEAN	449.74	0.00	450.28	449.53	450.74	450.44	450.67	449.03	449.90	450.59	450.96	450.77

WTR YR 1982 MEAN: 450.26 MAX: 451.96 MIN: 446.85

Statistical Summaries

- Well AG-6-1: Summary of Water Quality Data, 1974-1981 Water Years Compared to 1982 Water Year

WATER QUALITY DATA SUMMARY(A,B)
ALLUVIAL WELL AG-6-1 LOWER

PARAMETER	10/01/74-09/30/81 NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.	10/01/81-09/30/82 NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
WATER TEMPERATURE (DEG C)	27	0	10.0	14.7	12.62	1.17	1	0	13.5	13.5	13.50	---
SPECIFIC CONDUCTANCE FIELD (UMHOS)	29	0	1200	7250	3967.6	2411.2	1	0	1250	1250	1250.0	---
PH FIELD (UNITS)	15	0	7.6	8.2	7.88	0.18	1	0	8.4	8.4	8.40	---
OXYGEN DEMAND, CHEM (HIGH LEVEL) (MG/L)	1	0	36.0	36.0	36.00	---	1	0	34.0	34.0	34.00	---
COLOR (PCU)	4	0	0	3	0.8	1.5	1	0	60	60	60.0	---
TURBIDITY (NTU)	0	0	---	---	---	---	1	0	660	660	660.00	---
SUSPENDED SOLIDS, RESIDUE @ 105 C (MG/L)	0	0	---	---	---	---	1	0	122	122	122.0	---
TOTAL DISS SOLIDS @180 C (TDS) (MG/L)	4	0	6950	7140	7067.5	85.4	1	0	785	785	785.0	---
TOTAL DISS SOLIDS (SUM) (MG/L)	12	0	1200	6710	5435.8	1888.9	1	0	801	801	801.0	---
ALKALINITY, LAB (MG/L AS CACO3)	1	0	320	320	320.0	---	1	0	300	300	300.0	---
HARDNESS TOTAL (AS CACO3) (MG/L)	12	0	320	3500	2633.3	1057.9	1	0	230	230	230.0	---
HARDNESS, NONCAR. (AS CACO3) (MG/L)	12	0	3	3200	2330.3	1057.8	1	0	0	0	0.0	---
CALCIUM DISS (MG/L)	12	0	70	790	549.17	221.13	1	0	45	45	45.00	---
MAGNESIUM DISS (MG/L)	12	0	36	390	304.25	122.07	1	0	28	28	28.00	---
SODIUM DISS (MG/L)	12	0	260	850	707.50	195.36	1	0	190	190	190.00	---
SODIUM ADSORPTION RATIO (SAR)	12	0	5.5	6.8	6.22	0.45	1	0	6.1	6.1	6.10	---
PERCENT SODIUM	12	0	32	76	40.8	12.3	1	0	64	64	64.0	---
POTASSIUM DISS (MG/L)	12	0	2.8	8.7	6.46	1.82	1	0	1.9	1.9	1.90	---
CHLORIDE DISS (MG/L)	12	0	45	280	206.08	78.21	1	0	42	42	42.00	---
SULFATE DISS (MG/L)	12	0	570	4400	3436.67	1283.73	1	0	290	290	290.00	---
SILICA DISS (MG/L)	12	0	18	21	19.83	0.94	1	0	21	21	21.00	---
FLUORIDE DISS (MG/L)	12	0	0.20	1.0	0.37	0.25	1	0	0.40	0.40	0.40	---
BROMIDE DISS (MG/L)	1	0	0.70	0.70	0.70	---	0	0	---	---	---	---
SULFIDE TOTAL (MG/L AS S)	1	0	0.00	0.00	0.00	---	1	1	<0.50	<0.50	<0.50	---
DISSOLVED ORGANIC CARBON (DOC) (MG/L)	5	0	6.0	11	8.22	1.93	1	0	8.1	8.1	8.10	---
OIL AND GREASE, TOTAL RECOV. GRAVIM. (MG	0	0	---	---	---	---	1	0	0	0	0.0	---
AMMONIA DISS (AS N) (MG/L)	5	0	0.010	0.140	0.0720	0.0476	1	1	<0.060	<0.060	<0.0600	---
NITRITE DISS (AS N) (MG/L)	4	0	0.160	0.380	0.2950	0.0998	1	1	<0.020	<0.020	<0.0200	---
NITRATE DISS (AS N) (MG/L)	4	0	5.4	8.5	6.87	1.43	0	0	---	---	---	---
NITRITE PLUS NITRATE DISS (AS N) (MG/L)	12	0	0.06	8.7	5.70	2.49	1	0	0.23	0.23	0.23	---
AMMONIA +ORGAN. NITROGN DISS. (AS N) (MG/	0	0	---	---	---	---	1	0	0.80	0.80	0.80	---

WATER QUALITY DATA SUMMARY(A,B)
ALLUVIAL WELL AG-6-1 LOWER

PARAMETER	10/01/74-09/30/81 NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.	10/01/81-09/30/82 NO. OF SMPLS	NO. BLW LLD(C)	MIN.	MAX.	MEAN	STD. DEV.
AMMONIA +ORGAN. NITROGN SUSP. (AS N) (MG/	0	0	---	---	---	---	1	0	0.60	0.60	0.60	---
AMMONIA +ORGAN. NITROGN TOTAL (AS N) (MG/	5	0	0.63	3.3	1.50	1.12	1	0	1.4	1.4	1.40	---
NITROGEN DISS (AS N) (MG/L)	0	0	---	---	---	---	1	0	1.0	1.0	1.00	---
PHOSPHORUS, ORTHO DISS (AS P) (MG/L)	12	1	<0.010	0.320	0.0500	0.0869	1	0	0.050	0.050	0.0500	---
PHOSPHORUS DISS. (AS P) (MG/L)	0	0	---	---	---	---	1	0	0.180	0.180	0.1800	---
PHOSPHORUS, TOTAL (AS P) (MG/L)	5	0	0.460	8.700	2.4300	3.5215	1	0	0.980	0.980	0.9800	---
ALUMINUM DISS (UG/L)	5	0	10	30	22.0	8.4	1	0	10	10	10.0	---
ARSENIC DISS (UG/L)	5	1	<1	3	1.8	0.8	1	0	5	5	5.0	---
BARIUM DISS (UG/L)	5	3	30	400	146.0	145.2	1	0	38	38	38.0	---
BERYLLIUM DISOLVED (UG/L)	4	1	<10	20	15.0	5.8	1	1	<3	<3	<3.0	---
BORON DISS (UG/L)	12	0	250	1300	497.5	274.5	1	0	180	180	180.0	---
CADMIUM DISS (UG/L)	5	1	0	4	1.8	1.5	1	1	<3	<3	<3.0	---
CHROMIUM DISS (UG/L)	5	4	10	<100	82.0	40.2	1	1	<10	<10	<10.0	---
COBALT DISS (UG/L)	4	1	0	3	1.3	1.5	0	0	---	---	---	---
COPPER DISS (UG/L)	5	0	3	33	14.2	11.9	1	0	7	7	7.0	---
CYANIDE TOTAL (MG/L AS CN)	4	0	0.00	0.00	0.00	0.00	1	1	<0.01	<0.01	<0.01	---
IRON DISS (UG/L)	7	1	<10	70	31.4	20.4	1	0	13	13	13.0	---
LEAD DISS (UG/L)	5	1	0	<10	4.6	4.6	1	0	12	12	12.0	---
LITHIUM DISS (UG/L)	5	0	20	40	36.0	8.9	1	0	20	20	20.0	---
MANGANESE DISS (UG/L)	7	0	290	2500	1641.4	877.9	1	0	72	72	72.0	---
MERCURY DISS (UG/L)	5	3	0.00	0.50	0.40	0.22	1	1	<0.10	<0.10	<0.10	---
MOLYBDENUM DISS (UG/L)	5	2	<1	12	5.2	4.6	1	0	16	16	16.0	---
NICKEL DISS (UG/L)	4	0	2	5	3.5	1.3	1	0	2	2	2.0	---
PHENOLS (UG/L)	2	0	1	5	3.0	2.8	1	0	7	7	7.0	---
SELENIUM DISS (UG/L)	5	0	2	55	30.8	20.9	1	0	3	3	3.0	---
SILVER DISS (UG/L)	4	0	0	0	0.0	0.0	1	1	<1	<1	<1.0	---
STRONTIUM DISS (UG/L)	5	0	1200	11000	6020.0	3733.9	1	0	850	850	850.0	---
VANADIUM DISS (UG/L)	5	0	2.8	5.4	4.06	1.21	1	0	7.0	7.0	7.00	---
ZINC DISS (UG/L)	5	0	340	4600	3028.0	1712.6	1	0	60	60	60.0	---

A - MEAN AND STANDARD DEVIATION ARE REPORTED USING ONE MORE SIGNIFICANT DIGIT THAN REPORTED FROM THE LABORATORY.
B - CONSTITUENTS FOUND IN CONCENTRATIONS LESS THAN THE LOWER LIMIT OF DETECTION WERE ASSUMED TO BE EQUAL TO THE LLD FOR THE PURPOSES OF STATISTICAL ANALYSIS(ie. <0.02 IS TREATED AS 0.02)
C - LLD = LOWER LIMIT OF DETECTION

Precipitation and Evaporation Data

Date: 11/1/82
Project: WRSP
Project Number: 1517-176
Station: EVP-2
By: SDM
Year: 1982 Water Year

Start of Operation: May 3, 1982
End of Operation: September 22, 1982*

*Note: Record for September 23-30 was deleted because the pan overflowed during rains on September 26-30. Pan evaporation for this period was probably near zero in any case.

Period	Net Pan Evaporation (inches)	Precipitation (inches)	Pan Coefficient	Total Pan Evaporation (inches)
5/3-6/1	4.00	1.20	0.95	4.94
6/2-7/2	6.48	0.20	0.95	6.35
7/3-8/2	6.40	1.10	0.95	7.13
8/3-8/31	3.33	2.80	0.95	5.82
9/1-9/22	1.80	1.20	0.95	2.85
Total for Period				27.09

STATION Evaporation - 2 SEASON TOTAL 81-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									1.350			
2										1.300	.800	
3								start				
4												
5												
6										.975	0	
7												
8												
9												1.400
10								1.050	1.850		.925	
11												
12										1.050	.425	
13												
14									.800			
15												
16										1.025	~~0~~ -0.100	-0.050
17								.700				
18									.725			
19										.825		
20											.575	
21									.650			
22										.775		.450
23											.700	
24								.900				
25												
26										.950		
27												
28									1.150			
29												
30												
31											.800	
Tot.								2.650	6.525	6.900	4.225	1.850

Date: 11/1/82
Project: WRSP
Project Number: 1517-176
Station: EVP-13
By: SDM
Year: 1982 Water Year

Start of Operation: May 4, 1982
End of Operation: September 22, 1982*

*Note: Record for September 23-30 was deleted because the pan overflowed during rains on September 26-30. Pan evaporation for this period was probably near zero in any case.

Period	Net Pan Evaporation (inches)	Precipitation (inches)	Pan Coefficient	Total Pan Evaporation (inches)
5/4-6/1	3.53	0.50	0.95	3.83
6/2-7/2	6.33	0.00	0.95	6.01
7/3-8/2	6.25	1.40	0.95	7.27
8/3-8/31	3.35	2.00	0.95	5.08
9/1-9/22	1.40	1.30	0.95	2.57
Total for Period				24.76

STATION EVAPORTATION - 13 SEASON TOTAL 81-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1									1.300			
2										1.200	.750	
3												
4								start				
5												
6										.875	0	
7												
8												
9												1.325
10								.725	1.875		1.000	
11												
12										1.050	.350	
13												
14									.700			
15												
16										1.025	-0.250 0 SM	-0.275 -0
17								.1.50				
18									.750			
19										.825		
20											.550	
21									.600			
22										.825		.350
23											.1.50	
24								.850				
25												
26										.900		
27												
3												
29									1.200			
30												
31											1.050	
Tot.								2.225	4.25	7.00	4.250	11.75

SEASON TOTAL

ate	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1							.10	.20				
	.10						.10				.90	
3	.20							.60				
4	1.10											
5												
6										.10		
7												
8	.20									.10		
9												.10
10											.10	
11	1.0							.30		.10		.50
12	.10										.10	
13	.20										.70	.40
14												
15	.30											
16												
17											.10	
18												
19												.10
20												.10
21												
22								.10	.10			
23								.10				
24												
25							.10			.10		
26										.30	.10	.10
27									.10	.30		1.00 ~~1.10~~
28											.60	.40
29	.30									.10	.20	.20
30	.30							.10				.10
31												
t.	3.80	No record	No record	No record	No record	No record	.30	1.40	.20	1.10	2.80	3.00 ~~3.10~~

Auto-Rain 1981-82

Station:

ARA-2

Date	Time	Tape Reading	Precipitation	
Oct 01 1981	1315	4.6	-0-	
02	1545	4.7	.10	
03	1300	4.8	.10	.20
03	2145	4.9	.10	
04	0345	5.0	.10	
04	1330	5.2	.20	
04	1530	5.3	.10	
04	1645	5.4	.10	
04	1715	5.5	.10	1.10
04	2000	5.6	.10	
04	2015	5.7	.10	
04	2045	5.8	.10	
04	2145	5.9	.10	
04	2230	6.0	.10	
08	0115	6.1	.10	.20
08	0945	6.2	.10	
11	0830	6.3	.10	
11	1100	6.5	.20	
11	1200	6.6	.10	
11	1245	6.7	.10	1.0
11	1330	6.8	.10	
11	1400	6.9	.10	
11	1430	7.0	.10	
11	1445	7.1	.10	
11	1500	7.2	.10	
12	0430	7.3	.10	
13	0215	7.4	.10	.20
13	0415	7.5	.10	
15	1345	7.6	.10	
15	1700	7.7	.10	.30
15	2200	7.8	.10	

Auto - Rain 1981-82

Station: ARB-2

Date	Time	Tape Reading	Precipitation
Oct 29 1981	0530	7.9	.10
29	1030	8.0	.10
29	1115	8.1	.10
30	0245	8.2	.10
30	0545	8.3	.10
30	1030	8.4	.10
3			
		Total Oct 81	3.80
3-31-82	1215	.0	start
4-1-82	1830	.1	.10
4-2-82	0115	.2	.10
4-25-82	0800	.3	.10
		Total APRIL	.30
5-1-82	0015	.3	start
-1-	1800	.4	.10
-1-	1945	.5	.10
5-3-82	1030	.6	.10
-3-	1700	.7	.10
-3-	1915	1.0	.30
-3-	2230	1.1	.10
5-11-82	0100	1.2	.10
-11-	0245	1.3	.10
-11-	1615	1.4	.10
-22-	1430	1.5	.10
-23-	2115	1.6	.10
-30-	1400	1.7	.10
		MAY total	1.40

Auto-Rain

Station:

ARA-2 1981-82

Date	Time	Tape Reading	Precipitation	
6-1-82	0945	1.7	-0-	
6-22-82	1515	1.8	.10	
6-27-82	2145	1.9	.10	
		June, total	.20	
7-2-82	1030	1.9	start	
-6-	0600	2.0	.10	
-8-	1945	2.1	.10	
-11-	1430	2.2	.10	
-25-	1545	2.3	.10	
-26-	2300	2.4	.10	0.30
-26-	2315	2.6	.20	
7-27-82	0015	2.7	.10	0.30
-27-	0115	2.8	.10	
-27-	0415	2.9	.10	
7-29-82	1745	3.0	.10	
		total July	1.10	
8-2-82	0845	3.0	start	
-2-	1700	3.5	.50	
-2-	1715	3.6	.10	.90
-2-	1730	3.8	.20	
-2-	1745	3.9	.10	
8-10-82	1245	4.0	.10	1.0
8-12-82	1145	4.1	.10	
-13-	1000	4.2	.10	
-13-	1245	4.3	.10	
-13-	1315	4.4	.10	
-13-	1400	4.5	.10	70 daily total
-13-	1430	4.7	[illegible]	

Auto-Rain

Station:

ARH-2 1981-82

Date	Time	Tape Reading	Precipitation	
Cm				
8-13-82	1500	4.8	.10	
8-17-82	1700	4.9	.10	.0
8-26-82	1715	5.0	.10	
8-28-82	1430	5.3	.30	
" 28 "	1445	5.5	.20	.60
" 28 "	1500	5.6	.10	
8-29-82	0230	5.7	.10	.20
8-29-82	0400	5.8	.10	
8-31-82	0915	5.8	end	
		Total - Aug.	2.80	

WHITE RIVER SHALE 1981-82

Station: Auto - RAIN

ARA-2 SEDT

Date	Time	Tape Reading	Precipitation	
8-31-82	0930	.2	start	
9-9-82	1500	.3	.10	
9-11-82	0415	.4	.10	
"	0615	.5	.10	
"	1015	.6	.10	.50
"	1130	.7	.10	
"	1230	.8	.10	
9-13-82	0630	.9	.10	
"	1230	1.0	.10	.40
"	1330	1.1	.10	
"	1815	1.2	.10	
9-19-82	2330	1.3	.10	
9-20-82	0800	1.4	.10	
9-26-82	0600	1.5	.10	
9-27-82	0030	1.6	.10	
"	0200	1.8	.20	
"	0215	1.9	.10	
"	0300	2.0	.10	
"	0345	2.1	.10	~~1.10~~ 1.00 SD
"	0545	2.2	.10	
"	1230	2.3	.10	
"	1745	2.4	.10	
"	1930	2.5	.10	
9-28-82	0600	2.6	.10	
"	2015	2.7	.10	.40
"	2145	2.8	.10	
"	2200	2.9	.10	
9-29-82	0800	3.0	.10	.20
"	0845	3.1	.10	
9-30-82	1215	3.2	.10	
9-30-82	2345	END		
		TOTAL, Sept.	~~3.10~~ 3.00 SDM	

STATION ARA-13 SEASON TOTAL 1981-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1				.10								
2	.10					.30	.10	.20			.60	
3	.30					.30		.40			.10	
4	~~1.10~~ 1.00 SDM					.10						
5										.10		—
6												
7				.10								.10
8	.20									.10		
9										.10		
10												.10
11	.90				.10			.20			.10	.60
12	.20											
13	.20										.80	.30
14	.10											
15	.20											
16	.10											
17											.10	
18						.10						
19								.10				.10
20												.10
21		.10	.10									
22				.10								
23								.10				—
24												
25		.10										.10
26		.10				.10				~~.20~~ 0.90 SDM		0.10 SDM
27			.20			.10				~~.30~~ 0.20 SDM		~~.10~~ 0.90 SDM
28										.10	.10	.40
29	.20	.20				.10					0.20 SDM	.30
30	.20							.10			~~.20~~ SDM	
31												
Tot.	3.70	.50	.30	.30	.10	1.10	.10	1.10	0	~~1.50~~ 1.40 SDM	2.10	3.10

Auto - Rain 1981-82

Station:

ARA-13

Date	Time	Tape Reading	Precipitation	
Oct 01 1981	1400	2.5	-0-	
- 02 -	1545	2.6	.10	
- 03 -	0545	2.7	.10	.30
- 03 -	2100	2.8	.10	
- 03 -	2145	2.9	.10	
- 04 -	0400	3.0	.10	
04 -	1330	3.1	.10	
04 -	1515	3.2	.10	
04 -	1700	3.3	~~.20~~ 0.10	50M
04 -	1715	3.4	.10	~~1.10~~
04 -	1945	3.5	.10	1.00 50M
04 -	2015	3.6	.10	
04 -	2045	3.7	.10	
04 -	2145	3.8	.10	
04 -	2215	3.9	.10	
Oct 08, 81	0245	4.0	.10	.20
08	0945	4.1	.10	
11,	0830	4.2	.10	
11,	1100	4.3	.10	
11	1145	4.4	.10	
11	1230	4.5	.10	.90
11,	1330	4.6	.10	
11,	1345	4.7	.10	
11,	1430	4.8	.10	
11	1445	4.9	.10	
11,	1500	5.0	.10	
12,	0415	5.1	.10	
12,	1215	5.2	.10	
13	0315	5.3	.10	
13,	0400	5.4	.10	
Oct, 14, 1981	0130	5.5	.10	

Auto - Rain 1981-82

Station:

ARA-13

Date	Time	Tape Reading	Precipitation
Oct 15 1981	1445	5.6	.10
15 "	1745	5.7	.10
16 "	0200	5.8	.10
29 "	1015	5.9	.10
29 "	1115	6.0	.10
30 "	0600	6.1	.10
30 "	1000	6.2	.10
		total Oct.	3.70
NOV 03 1981	0930	6.2	-0-
21 "	1315	6.3	.10
25 "	1415	6.4	.10
26 "	1015	6.5	.10
29 "	0530	6.6	.10
29 "	0800	6.7	.10
	total	NOV " 1981	.50
DEC 2, 1981	1030	.1	-0-
12-21-81	0515	.2	.10
-27-	0300	.3	.10
-27-	0615	.4	.10
		DEC, 1981 total	.30
Dec 31, 1981	0945	.4	-0-
Jan 01,	1600	.5	.10
1-7-81	0800	.6	.10
1-22-81	1400	.7	.10
		total JAN 1981	.30

Station: Cuto - Rain 1981-82

ARA-13

Date	Time	Tape Reading	Precipitation
2-2-82	1145	.7	-0-
2-11-82	0930	.8	.10
		total - Feb 82	.10
3-2-82	1000	.8	-0-
3-2-82	1745	.9	.10
"	2130	1.0	.10
"	2400	1.1	.10
3-3-82	0145	1.2	.10
"	0900	1.3	.10
"	2015	1.4	.10
3-4-82	1015	1.5	.10
3-18-82	2345	1.6	.10
3-26-82	1845	1.7	.10
3-27-82	0715	1.8	.10
3-29-82	1615	1.9	.10
3-31-82	1230	END	
		total, MARCH 82	1.10
3-31-82	1230	1.9	start
4-2-82	0515	2.0	.10
4-30-82	2400	end	
		total APRIL	.10
5-1-82	0015	2.0	start
5-2-82	1230	2.1	.10
	1245	2.2	.10

Auto-Rain

Station:

ARA-13 1981-82

Date	Time	Tape Reading	Precipitation
5-3-82	1315	2.2	.0
-3-	1915	2.4	.20
-3-	1930	2.5	.10
-3-	2130	2.6	.10
5-11-82	0030	2.7	.10
-11-	0315	2.8	.10
5-19-82	0800	2.9	.10
5-23-82	2100	3.0	.10
5-30-82	1415	3.1	.10
	May, total	—	1.10
6-1-82	1200	3.1	start
	June total		.0
7-2-82	1145	3.1	start
7-5-82	1915	3.2	.10
-7-	1215	3.3	.10
-9-	1715	3.4	.10
-26-	2230	3.5	.10
-26-	2245	3.6	.10
-26-	2300	3.8	.20
-26-	2315	4.1	~~.20~~ 0.30 SDM
-26-	2345	4.2	.10
7-~~27~~ 26 SDM-82	2400	4.3	.10
-27-	0100	4.4	.10
-27-	2315	4.5	.10
7-28-82	1700	4.6	.10
		total July —	~~1.40~~ 1.50 SDM

~~.80~~ 0.90 SI

~~.30~~ 0.20

Station: Auto-Rain

1981-82

ARH-13

Date	Time	Tape Reading	Precipitation
8-2-82	1045	4.7	start
2	715	4.9	.20
2	1730	5.1	.20 .60
2	1745	5.3	.20
3	0600	5.4	.10
11	1630	5.5	.10
8-13-82	0915	5.6	.10
13 "	1115	5.7	.10
13 "	1300	5.8	.10
13 "	1330	5.9	.10 .50
13 "	1415	6.0	.10
13 "	1445	6.1	.10
13 "	1500	6.2	.10
13 "	1530	6.3	.10
8-17-82	1400	6.4	.10
8-28-82	1500	6.5	.10
29 "	0145	6.6	.10 .20
29 "	0345	6.7	.10
8-31-82	1115	6.7	end
		total - Aug.	2.0

WHITE RIVER SHALE 1981-82

Station: Auto - Rain

ARA-13

Date	Time	Tape Reading	Precipitation	
2-31-82	1115	.3	Start	
9-7-82	0800	.4	.10	
9-10-82	2000	.5	.10	
9-11-82	0445	.6	.10	
"	0615	.7	.10	
"	1000	.8	.10	.60
"	1130	.9	.10	
"	1215	1.0	.10	
"	1400	1.1	.10	
9-13-82	1200	1.2	.10	
"	1330	1.3	.10	.30
"	1545	1.4	.10	
9-19-82	2345	1.5	.10	
9-20-82	2400	1.6	.10	
9-25-82	2315	1.7	.10	
9-~~27~~ 26-82 SDM	2400	1.8	.10	
9/27/82 SDM	0130	1.9	.10	
"	0200	2.0	.10	
"	0230	2.1	.10	
"	0300	2.2	.10	SDM
"	0330	2.3	.10	0.90 in
"	0500	2.4	.10	
"	1130	2.5	.10	
"	1800	2.6	.10	
"	2130	2.7	.10	
9-28-82	1200	2.8	.10	
"	1630	2.9	.10	.40
"	2145	3.0	.10	
"	2215	3.1	.10	
9-29-82	0245	3.2	.10	.30
"	0900	3.3	.10	
"	1045	3.4	.10	

STATION HRS-9 SEASON TOTAL 81-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1												
2	.10							.30			.70	
3	.10							.10				
4	1.0											
5										.10		.10
6												.10
7							.10					
8	.20									.20		
9								.10		.10		
10											.10	.10
11	1.0							.20				.60
12	.20											
13	.20										.90	.60
14	.10											
15	.20											
16	.10											
17												
18											.10	
19								.10				.10
20												.10
21												
22												
23								.10				
24									.10			
25												
26										.10		.10
27										.20		.90
28										.40		.40
29	.30										.10	.30
30	.20							.10				
31												
Tot.	3.70	No	No	No	No	No	.10	1.20	.10	1.10	1.90 SDM	3.40 SDM

Station: ARA-9 1981-82

Date	Time	Tape Reading	Precipitation	
Oct 1 1981	2400	5.8	-0-	
10-2-81	1615	5.9	.10	
10-3-81	2115	6.0	.10	
10-4-81	1015	6.1	.10	
-4-	1345	6.2	.10	
-4-	1630	6.3	.10	
-4-	1700	6.4	.10	
-4-	1730	6.5	.10	
-4-	1945	6.6	.10	1.0
-4-	2000	6.7	.10	
-4-	2030	6.8	.10	
-4-	2200	6.9	.10	
-4-	2215	7.0	.10	
Oct 05, 1981	0945	.1	Start	
,08,	0815	.2	.10	.20
,08,	0945	.3	.10	
,11,	0830	.4	.10	
,11,	1100	.6	.20	
,11,	1200	.7	.10	
,11,	1245	.8	.10	
,11,	1330	.9	.10	1.0
,11,	1400	1.0	.10	
,11,	1430	1.1	.10	
,11,	1445	1.2	.10	
,11,	1500	1.3	.10	
,12,	0515	1.4	.10	.20
,12,	1200	1.5	.10	
,13,	0045	1.6	.10	.20
,13,	0345	1.7	.10	
,14,	0045	1.8	.10	
,15,	1415	1.9	.10	.20
,15,	1715	2.0	.10	

1981-82

Station: Auto-RAIN GAGE ARS-9

Date	Time	Tape Reading	Precipitation	
Oct 16 1981	0145	2.1	.10	
" 29 "	0515	2.2	.10	
" 29 "	1115	2.3	.10	.30
" 29 "	1500	2.4	.10	
" 30 "	0615	2.5	.10	.20
" 30 "	1045	2.6	.10	
		total Oct	3.70	
3-31-82	1045	.10	Start	
4-7-82	0400	.20	.10	
		total APRIL	.10	
5-1-82	0015	.20	start	
5-2-82	1245	.50	.30	
5-3-82	1915	.60	.10	
5-9-82	1000	.7	.10	
5-11-82	0045	.8	.10	
-11-	0345	.9	.10	
5-19-82	0815	1.0	.10	
5-23-82	2100	1.1	.10	
5-30-82	1400	1.2	.10	
		MAY total —	1.0	
6-1-82	1115	1.2	-0- start	
6-24-82	1215	1.3	.10	
		June, total —	.10	

Station: Auto-Rain Gage 1981-82

ARS-9

Date	Time	Tape Reading	Precipitation	
7-2-82	1130	1.3	Start	
-5-	1930	1.4	.10	
-6-	0615	1.5	.10	.20
-8-	1945	1.6	.10	
7-9-82	1045	1.7	.10	
-[illegible]-	2315	1.8	.10	
-[illegible]-	0015	1.9	.10	.20
-27-	0115	2.0	.10	
-28-	0430	2.1	.10	
-28-	0445	2.2	.10	.40
-28-	0515	2.4	.20	
			1.10	
		Total July		
8-2-82	1000	2.4	Start	
" 2 "	1700	2.7	.30	
" 2 "	1715	2.8	.10	.70
" 2 "	1730	3.0	.20	
" 2 "	1745	3.1	.10	
10	1130	3.2	.10	
8-13-82	0915	3.3	.10	
" 13 "	1115	3.4	.10	
" 13 "	1245	3.5	.10	
" 13 "	1300	3.6	.10	
" 13 "	1400	3.7	.10	.90
" 13 "	1430	3.8	.10	
" 13 "	1445	3.9	.10	
" 13 "	1500	4.0	.10	
13 "	1545	4.1	.10	
8-18-82	0945	4.2	.10	.10
8-30-82	0230	4.3	.10	
8-31-82	1015	4.3	[illegible]	

WHITE RIVER SHALE 1981-82

Station: Auto-Rain

ARS-9 Scott

Date	Time	Tape Reading	Precipitation	
8-31-82	1030	4.3	Start	
9-5-82	1500	4.4	.10	
9-9-82	1145	4.5	.10	
9-10-82	1300	4.6	.10	
9-11-82	0300	4.7	.10	
"	0500	4.8	.10	
"	0745	4.9	.10	.60
"	1015	5.0	.10	
"	1115	5.1	.10	
"	1245	5.2	.10	
9-13-82	0530	5.4	.20	
"	1230	5.5	.10	
"	1330	5.6	.10	.60
"	2215	5.7	.10	
"	2245	5.8	.10	
9-19-82	2330	5.9	.10	
9-20-82	0745	6.0	.10	
9-26-82	0130	6.1	.10	
9-27-82	0015	6.2	.10	
"	0200	6.3	.10	
"	0245	6.4	.10	
"	0315	6.5	.10	
"	0345	6.6	.10	.90
"	0600	6.7	.10	
"	1730	6.8	.10	
"	1800	6.9	.10	
"	2130	7.0	.10	
9-28-82	1615	7.2	.20	
	2015	7.3	.10	.40
	2145	7.4	.10	
9-29-82	0445	7.5	.10	
	0815	7.6	.10	.30

Cm't

White River Shale 1981-82

Station: Auto - Rain

Sc. A.

HRS-9

Date	Time	Tape Reading	Precipitation
9-30-82	2345	- end	
		total - Sept	- ~~3.10~~ 3.40 SPM

TATION RA-4 SEASON TOTAL 81-82

te	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
3												
4												
5	1.20											
6												
7												
8												
9												
0												
1												
12										.49	.57	
3												
14												
5												
16												
7												
18												
9												
20												
21												
2												
23												
4												
25												
5												
27												
3												
29												
0	.77	.56							.10			3.23
31	3.70 EST		.65	.31		1.56		.86		.74	.13	

Some precipitation was probably missed between October 5 and 30 readings. Sheep were in area during this period and may have knocked over the gauge. SDH

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
	3.35	.55							.09			3.37
			.53	.43		1.61		1.22		1.76	1.73	
T.	3.35	.55	.53	.43	T	1.61	T	1.22	.09	1.76	1.73	3.37

ate	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7	1.38											
8												
9												
10												
11												
12											.02	
13	1.40											
14												
15												
[redacted]												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27										1.04		
28												
29												
30	.87	.66							.17			3.22
31			.35	.27		1.28		1.19		.41	2.54	
[redacted]	3.65	.66	.35	.27	T	1.28	T	1.19	.17	1.45	2.56	3.22

TATION KJ-11 SEASON TOTAL 81-82

te	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
0												
1												
2											.23	
3												
4												
5												
6												
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
7												
8												
9												
	3.40	.62							.11			3.44
1			.27	.43		1.45		1.14		1.23	1.60	
	3.40	.62	.27	.43	T	1.45	T	1.14	.11	[illegible]	[illegible]	[illegible]

TATION KS-13 SEASON TOTAL 81-82

te	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5	1.68											
6												
7												
8												
9												
0												
1												
2												
3	1.27											
4												
5												
6											1.60	
7												
8												
9												
0												
1												
2												
3												
4												
5												
6												
27										1.63		
8												
29												
0	1.64	.50							.17			3.63
31			.31	.24		1.39		1.60		.05	1.22	

STATION KV-1 SEASON TOTAL 81-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12											1.73	
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
2												
30	3.20	.66							.08			3.30
31			.34	.42		1.36		1.33		.97	1.30	
[illegible]	3.20	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

SEASON TOTAL 81-82

Date	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12											.82	
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	3.80	.54							.09			3.32
31			.32	.43		1.45		1.26		1.45	1.05	
Tot.	3.80	.54	.32	.43	T	1.45	T	1.26	.09	1.45	1.88	3.32

Summary 10-1-82

	Years of Data	Accum. Moisture	Average Annual Precip	81-82 Precip	81-82 % of Average
28 Seely Cabin	18	214.4	11.9	13.9	117
29 Boulevard Ridge	18	261.0	14.5	19.0	134
34 Tom Patterson	18	256.8	14.3	23.2	162
30 Mayo	18	231.1	12.8	16.1	126
32 Winter Ridge	17	212.5	12.5	17.6	141
33 South Canyon	10	190.8	19.0	27.3	144
31 Cottonwood	10	82.0	8.2	10.8	132
39 Baser Wash	8	53.9	6.7	10.2	152
35 Kruger Fritz	8	65.7	8.2	11.4	139
38 Deadman	8	68.1	8.5	12.5	147
37 Davis Spring	8	79.5	9.9	14.4	145
Miners Gulch	8	107.5	13.4	19.7	147
Blue Mountain	8	115.6	14.4	20.1	140
					140.2

Form 1279-3
(June 1984)

BORROWER

TN 859 .U82 W43

1982 water resour
data report

DATE LOANED	BORROWER

USDI – BLM